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A REPORT ON POLLUTION OF THE UPPER COLORADO RIVER BASIN TECHNICAL APPENDIX

Federal Water Pollution Control Administration
Cincinnati, Ohio

April 1969

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A REPORT ON

PR - 17

POLLUTION OF THE UPPER COLORADO RIVER BASIN TECHNICAL APPENDIX

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Springfield VA 22151

UNITED STATES DEPARTMENT OF THE INTERIOR
FEDERAL WATER POLLUTION CONTROL ADMINISTRATION
TECHNICAL ADVISORY AND INVESTIGATIONS BRANCH
CINCINNATI, OHIO
PREPARED IN COOPERATION WITH THE COLORADO RIVER
BASIN WATER QUALITY CONTROL PROJECT
DENVER, COLORADO
APRIL, 1969

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INTRODUCTION

This report (PR-17) includes all of the physical, chemical and bacteriological data determined from analyses on samples collected during the Technical Advisory and Investigations (TA&I) Branch, of the Federal Water Pollution Control Administration study of the Upper Colorado River during July and August, 1966. Companion reports prepared by TA&I Branch are: PR-15, which presents the data and interpretation for the biological studies; and PR-16, which presents an interpretation of the physical, chemical and bacteriological data presented in this report.

These three reports were prepared at the request of, and in cooperation with, the Colorado River Basin Project, FWPCA in Denver, Colorado.

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COLORADO RIVER BASIN STUDIES

TABLE I

Station C-1 - Colorado River - State Highway 13 Bridge at Rifle

	DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	Fe (Total) mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l
	8-17	0910	19	6.9	< 25	1030	16	3	162	8.2	130	4900	1100			0.2	< 0.5	< 0.02	0.06	< 0.02	< 0.02	< 0.04
	18	0845	19	7.0	< 25	1060	16	3	166	8.1	130	17000	700			0.3	-	-	0.04	-	-	-
	19	1315	21	9.4	< 25	1060	13	2	173	8.5	140	4900	230			0.2	-	-	0.04	-	-	-
	22	930	17	7.2	84	1030	73	10	156	8.1	140	2300	2300			0.8	-	-	0.08	-	-	-
3	23	1135	19	7.5	97	888	87	8	151	8.2	140	4900	700			1.0	-	-	0.09	-	-	-
	24	830	17	7.1	27	1060	31	4	163	8.1	140	13000	700			0.3	0.5	< 0.02	0.04	< 0.02	0.02	< 0.04
	AVG.		19	7.5	< 47	1000	39	5	162	8.2	137	6850	760			0.47	< 0.5	< 0.02	0.06	< 0.02	< 0.02	< 0.04
	MAX.		21	9.4	97	1060	87	10	173	8.5	140	17000	2300			1.0	0.5	< 0.02	0.09	< 0.02	0.02	< 0.04
	MIN.		17	6.9	< 25	888	13	2	151	8.1	130	2300	230			0.2	< 0.5	< 0.02	0.04	< 0.02	< 0.02	< 0.04

Date	NO_3-N mg/l	NO_2-N mg/l	Org. P mg/l	Total P mg/l	Sol. P mg/l
8-19	0.96	< 0.1	0.1	15	10
23	0.02	< 0.1	0.3	75	-
AVG.	0.15	< 0.1	0.2	45	10

COLORADO RIVER BASIN STUDIES

TABLE II

Station RC-2 - Rifle Creek - Can. Highway #24 Bridge - west of Rifle.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	Fe (Total) mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l
8-17	0925	16	8.5	< 25	1520	65	4	26	8.2	250	14,000	3300			0.1	< 0.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04
18	0900	16	8.1	< 25	1560	47	4	23	8.3	280	11,000	3300			0.1	-	-	0.05	-	-	-
19	1300	22	9.0	< 25	1470	34	7	25	8.5	280	54,000	2300			< 0.1	-	-	0.05	-	-	-
22	0945	13	8.3																		
23	-	-	-																		
24	-	-	-																		
AVG.		17	8.5	< 25	1520	48.7	5	25	8.3	270	20,250	2950			< 0.1	< 0.5	< 0.02	< 0.04	< 0.02	? 0.02	< 0.04
MAX.		22	9.0	< 25	1560	65	7	26	8.5	280	54,000	3300			0.1			0.05			
MIN.		13	8.1	< 25	1470	34	4	23	8.2	250	11,000	2300			< 0.1			< 0.02			

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P mg/l	Sol. P mg/l
8-19	0.24	< 0.1	0.7	28	5

COLORADO RIVER BASIN STUDIES

TABLE 3

Station C-3. Colorado River - At water intake of Union Carbide Plant, downstream of Rifle

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	0945	20	7.5							8.2		14000	2200		
18	0915	19	7.4							8.2		3300	200		
19	1230	21	9.2							8.5		2200	200		
22	1000	17	7.3							8.1		3300	3300		
23	1120	19	7.3							8.2		4900	1700		
24	0845	17	7.2							8.1		2300	2300		
AVG.		19	7.6							8.2		3950	1020		
MAX.		21	9.2							8.5		14000	3300		
MIN.		17	7.2							8.1		2200	200		

COLORADO RIVER BASIN STUDIES
TABLE 4

Station C-4 - Colorado River. At Balsam Bridge off Highway U-24 about 6 miles below Union Carbide.

	DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	Fe (Total) mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l
	8-17	1005	19	7.2	< 25	1040	10	2	103	8.2	130	4600	490			0.2	0.5	< 0.02	0.06	0.02	< 0.02	< 0.04
	18	0935	20	6.9	< 25	1040	15	2	165	8.1	130	1700	230			0.2	-	-	0.05	-	-	-
	19	1405	21	8.4	< 25	1020	9	4	173	8.3	140	3300	170			< 0.1	-	-	0.04	-	-	-
	22	1025	17	7.0	116	1040	93	12	160	8.1	140	24000	1100			1.0	-	-	0.10	-	-	-
	23	1055	18	7.1	97	1040	87	8	157	8.1	140	11000	700			1.0	-	-	0.09	-	-	-
	24	0905	17	7.1	< 25	1060	24	3	162	8.1	140	1300	1300			0.5	< 0.5	< 0.02	0.05	< 0.02	0.02	< 0.04
	AVG.		19	7.3	< 52.1	1050	41	5	163	8.2	137	5510	580			< 0.5	< 0.5	< 0.02	0.065	< 0.02	< 0.02	< 0.04
	MAX.		21	8.4	116	1060	93	12	173	8.3	140	24000	1300			1.0	0.5	< 0.02	0.10	0.02	0.02	< 0.04
	MIN.		17	7.0	< 25	1020	9	2	157	8.1	130	1700	170			< 0.1	< 0.5	< 0.02	0.04	< 0.02	< 0.02	< 0.04

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P mg/l	Sol. P mg/l
8-19	0.56	0.8	0.5	12	5
23	0.58	0.8	0.7	80	5
AVG.	0.57	0.8	0.6	46	5

COLORADO RIVER BASIN STUDIES

TABLE 5

Station C-5 - Colorado River. At 45 Road bridge in DeBeque near water intake.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	1045	21	7.5							8.3		2300	50		
18	1010	21	7.3							8.4		2300	20		
19	1130	22	7.7							8.4		1300	< 20		
22	1100	18	7.4							8.4		2200	130		
23	1025	19	7.2							8.3		3300	50		
24	0945	18	7.3							8.3		3300	270		
AVG.		20	7.4							8.3		2340	< 60		
MAX.		22	7.7							8.4		3300	270		
MIN.		18	7.2							8.3		1300	< 20		

COLORADO RIVER BASIN STUDIES

TABLE 6

Station PC-6 - Plateau Creek. At Highway 65 exit from I-70.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	1115	21	8.0							8.6		1400	20		
18	1035	21	7.9							8.6		700	80		
19	1105	21	8.2							8.7		490	40		
22	1130	18	7.9												
AVG.		21	8.0							8.5		760	40		
MAX.		21	8.2							8.7		1400	80		
MIN.		18	7.9							8.6		490	20		

COLORADO RIVER BASIN STUDIES

TABLE 7

Station C-7 - Colorado River. At bridge entering Public Service power plant near Cameo Exit from I-70

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	Fe (Total) mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l
8-17	1130	22	7.9	21	377	17	4	136	8.5	140	1300	40			0.4	< 0.5	< 0.02	0.07	< 0.02	< 0.02	< 0.04
18	1055	20	7.0	25	396	13	2	139	8.4	140	2300	< 20			0.3	-	-	0.06	-	-	-
19	1005	22	7.5	< 25	1090	23	5	146	8.4	150	790	20			0.4	-	-	0.05	-	-	-
22	1200	20	7.0	249	1140	204	21	159	8.3	180	2300	90			1.9	-	-	0.18	-	-	-
23	0935	19	7.1	140	1050	142	10	144	8.4	170	2500	50			1.3	-	-	0.13	-	-	-
24	1015	19	7.5	73	1032	90	14	135	8.3	170	7000	330			1.0	1.0	< 0.02	0.07	0.02	< 0.02	< 0.04
AVG.		21	7.5	< 30	1050	83	9	143	8.4	158	2140	< 30			0.9	< 0.75	< 0.02	0.83	< 0.02	< 0.02	< 0.04
MAX.		22	7.9	249	1140	204	21	159	8.5	180	7000	330			1.9	1.0	< 0.02	0.13	0.02	< 0.02	< 0.04
MIN.		19	7.1	< 25	977	13	2	135	8.3	140	790	< 20			0.3	< 0.5	< 0.02	0.05	< 0.02	< 0.02	< 0.04

Date	NH_3-N mg/l	NO_3-N mg/l	Org.N mg/l	Total P mg/l	Sol.P mg/l
8/19	0.14	0.3	0.5	32	20
23	0.36	0.4	0.4	85	< 5
AVG	0.25	0.4	0.4	58	< 12

COLORADO RIVER BASIN STUDIES
TABLE 8

Station C-8 - Colorado River. At Clifton Bridge in Clifton, above Grand Junction

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	1215	24	8.3	< 25	1160	17	2		151	8.4	130	1300	20	0.7	1.5
18	1130	23	7.9	< 25	1250	12	2		156	8.3	140	1100	80	1.1	1.6
19	1000	21	7.3	< 25	1330	15	5		163	8.3	160	3300	80	0.9	1.3
22	1245	21	7.7	267	1290	217	20		164	8.3	160	1700	50	0.6	1.3
23	0900	19	7.0	182	1250	148	8		162	8.4	160	2800	70	0.4	0.9
24	1055	21	7.6	96	1210	92	12		159	8.3	150	13000	130	0.5	1.1
AVG.		22	7.6	< 103	1250	83	8		159	8.3	150	2580	60	0.7	1.3
MAX.		24	8.3	267	1330	217	20		164	8.4	160	13000	130	1.1	1.6
MIN.		19	7.0	< 25	1160	12	2		151	8.3	130	1100	20	0.4	0.9

Date	NO_3-N mg/l	NO_2-N mg/l	Org. N mg/l	Total P mg/l	Sol. P mg/l
8/19	0.06	0.5	0.5	88	< 5
23	0.29	0.6	0.4	120	< 5
AVG.	0.16	0.6	0.4	89	< 5

COLORADO RIVER BASIN STUDIES

TABLE 9

Station C-9. Colorado River - At 5th St. Bridge in Grand Junction, Colo.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	Fe (Total) mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l
8-17	1520	26	9.3	< 25	1400	29	3	156	8.4	140	17,000	3,300			0.4	< 0.5	< 0.02	0.07	< 0.02	< 0.02	< 0.04
18	0900	22	6.6	28	1500	26	2	163	8.2	170	17,000	4,600			0.3	-	-	0.09	-	-	-
19	1155	23	8.2	< 25	1630	34	4	171	7.6	160	70,000	22,000			0.4	-	-	0.07	-	-	-
20	1405	23	7.4	260	1530	217	13	173	8.2	170	33,000	4,900			1.9	-	-	0.14	-	-	-
23	0830	18	6.7	189	1540	184	24	182	8.1	170	33,000	3,300			1.7	-	-	0.16	-	-	-
24	1155	21	7.5	97	1410	138	19	163	8.2	160	79,000	3,300			-	-	-	-	-	-	-
AVG.		22	7.6	< 104	1500	105	11	168	8.1	162	34,700	5,130			0.9	< 0.5	< 0.02	0.106	< 0.02	< 0.02	< 0.04
MAX.		26	9.3	260	1630	217	24	182	8.4	170	79,000	22,000			1.9			0.16			
MIN.		18	6.6	< 25	1400	26	2	156	7.6	140	17,000	3,300			0.3			0.07			

Date	NO_3-N mg/l	NO_2-N mg/l	Org.N mg/l	Total P mg/l	Sol. P mg/l
8/19	2.50	0.8	1.0	47	< 5
23	3.00	0.6	1.3	145	< 5
AVG	2.75	0.7	1.2	96	< 5

COLORADO RIVER BASIN STUDIES

TABLE 10

Station C-10 - Colorado River. Above irrigation return 1.2 miles on West Ave. after right off Highway 340.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	Fe (Total) mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l
8-17	1255	26	8.5	32	1470	42	6	161	8.2	130	330,000	230,000	2.0	6.4	0.4	< 0.5	< 0.02	0.11	0.08	0.02	< 0.04
18	0840	22	5.0	28	1600	34	2	166	8.2	130	330,000	49,000	6.0	9.6	0.3	-	-	0.12	-	-	-
	1245	24	7.7												0.4	-	-	0.14	-	-	-
8-19	-	-	-	< 25	1700	19	2	168	8.0	150	490,000	330,000	4.0	6.4	2.1	-	-	0.19	-	-	-
22	1325	22	6.8	280	1620	238	16	176	8.0	150	310,000	130,000	1.6	5.2	1.3	-	-	0.14	-	-	-
23	1310	23	7.0	170	1570	138	10	177	8.1	170	700,000	130,000	2.0	5.6	1.2	2.5	< 0.02	0.14	0.04	< 0.02	< 0.04
24	1130	21	6.7	133	1480	126	17	166	8.0	160	3,500,000	3,500,000	2.0	4.4							
AVG.		23	6.9	< 111	1570	99	9	169	8.1	148	586,000	346,000	2.9	6.3	0.9	< 1.5	< 0.02	0.14	0.06	< 0.02	< 0.04
MAX.		26	8.5	280	1700	238	17	177	8.2	170	3,500,000	3,500,000	6.0	9.6	1.3	2.5	< 0.02	0.19	0.08	0.02	< 0.04
MIN.		21	5.0	< 25	1470	19	2	161	8.0	130	310,000	49,000	1.6	4.4	0.3	< 0.5	< 0.02	0.11	0.04	< 0.02	< 0.04

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P mg/l	Sol. P mg/l
8-19	4.45	2.8	1.5	90	19
23	3.32	1.7	0.8	189	< 5
AVG.	3.84	2.2	1.2	138	< 12

COLORADO RIVER BASIN STUDIES
[redacted] 11

Station C-11 - Colorado River. At Highway 340 Bridge above Fruita.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	1410	[redacted]	8.6							8.3		22,000	2,300		
18	0810	[redacted]	5.2							8.3		79,000	7,900		
	1350	[redacted]	11.3												
19	-	-	-							8.0		130,000	13,000		
22	1440	22	7.3							8.1		350,000	6,300		
23	1500	22	6.5							8.1		49,000	7,900		
24	1415	22	7.4							8.1		1,600,000	540,000		
AVG.		24	7.2							8.1		135,500	13,600		
MAX.		27	11.3							8.3		1,600,000	540,000		
MIN.		21	5.2							8.0		22,000	2,300		

COLORADO RIVER BASIN STUDIES

TABLE 12

Station C-12 - Colorado River. At East Side of American Gilsonite Plant.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	1435	27	12.4							8.4		33,000	1,300		
18	0750	20	5.7							8.4		79,000	13,000		
	1330	27	11.3												
19	-	-	-							7.9		28,000	2,300		
22	1400	22	8.4							8.1		22,000	3,300		
23	1440	22	7.3							8.1		49,000	7,900		
24	1400	22	9.3							8.2		240,000	130,000		
AVG.		24	9.1							8.2		51,600	7,130		
MAX.		27	12.4							8.4		240,000	130,000		
MIN.		22	5.7							7.9		22,000	1,300		

COLORADO RIVER BASIN STUDIES
TABLE 11

Station C-13 - Colorado River. At Lees - WPSS Station

	DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l		CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	Fe (Total) mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l
	8-17	0750	20	5.6	87	1830	118	9		131	7.9	160	35,000	4,900			1.0	1.0	< 0.02	0.10	0.02	< 0.02	< 0.04
	18	1300	23	7.4	70	1910	102	4		125	8.3	180	54,000	4,600			1.0	-	-	0.10	-	-	-
	19	1315	21	7.2	93	2000	141	9		132	8.1	180	54,000	7,900			0.9	-	-	0.11	-	-	-
	22	1335	21	7.5	190	1920	220	13		139	8.2	180	79,000	4,900			1.2	-	-	0.15	-	-	-
	23	1410	21	6.9	222	1900	254	20		143	8.1	190	79,000	23,000			2.0	-	-	0.16	-	-	-
	24	1340	21	7.5	195	1860	721	35		141	8.1	190	540,000	79,000			1.4	4.4	< 0.02	0.22	0.03	< 0.02	< 0.04
	AVG.		22	7.0	143	1900	259	15	A	135	8.1	180	83,700	10,800			1.2	2.7	< 0.02	0.14	0.025	< 0.02	< 0.04
	MAX.		23	7.5	222	2000	721	35	C	143	8.3	190	540,000	79,000			2.0	4.4	< 0.02	0.22	0.03	< 0.02	< 0.04
	MIN.		20	5.6	70	1830	102	4		125	7.9	160	35,000	4,600			0.9	1.0	< 0.02	0.10	0.02	< 0.02	< 0.04

Date	NH_3-N mg/l	NO_3-N mg/l	Org.N mg/l	Total P mg/l	Sol.P mg/l
8/19	0.25	3.3	0.9	153	7
23	0.34	1.8	1.2	220	5
AVG	0.30	2.6	1.0	186	6

COLORADO RIVER BASIN STUDIES

TABLE 14

Station C-14 - Colorado River. At Westwater - 3 miles below State line. Turn left off Highway 50 - 7 miles into Utah.

	DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	Fe (Total) mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l
	8-17	0900	22	6.4	29	1840	47	2	129	8.1	160	7,000	790			0.5	1.0	< 0.02	0.06	0.02	< 0.02	< 0.04
	18	1200	24	8.6	< 25	1870	29	1	123	8.4	170	22,000	460			0.8	-	-	0.07	-	-	-
	19	1225	23	8.0	< 25	1900	40	3	123	8.4	170	11,000	490			0.4	-	-	0.06	-	-	-
	22	1250	22	7.3	282	1930	278	21	126	8.2	180	54,000	11,000			2.3	-	-	0.19	-	-	-
	23	1300	24	8.0	120	1930	125	13	131	8.3	170	54,000	2,300			1.0	-	-	0.10	-	-	-
	24	1245	22	8.6	77	1930	149	7	132	8.4	180	92,000	3,300			1.0	1.8	< 0.02	0.08	< 0.02	< 0.02	< 0.04
	AVG.		23	7.8	< 93	1900	111	7.8	127	8.3	172	27,700	1,570			1.0	1.4	< 0.02	0.093	< 0.02	< 0.02	< 0.04
	MAX.		24	8.6	282	1930	278	21	132	8.4	180	92,000	11,000			2.3	1.8	< 0.02	0.19	0.02	< 0.02	< 0.04
	MIN.		22	6.4	< 25	1840	29	1	123	8.1	160	7,000	460			0.4	1.0	< 0.02	0.06	< 0.02	< 0.02	< 0.04

Date	NH_3-N mg/l	NO_3-N mg/l	Org.N mg/l	Total P mg/l	Sol.P mg/l
8/19	0.14	2.8	0.7	58	10
23	0.16	2.2	0.9	128	< 5
AVG	0.15	2.5	0.8	83	< 8

COLORADO RIVER BASIN STUDIES
TABLE 15

Station C-16 - Colorado River. At Highway 128 Bridge in Utah - about 15 miles off Highway 50.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	1010	24	4.8							8.2		700	20		
18	1050	23	7.0							8.2		22,000	20		
19	0850	23	6.8							8.3		220	< 20		
22	1110	22	7.9							8.3		4,900	220		
23	0850	20	6.0							8.1		17,000	1300		
24	0840	20	6.9							8.1		35,000	330		
AVG.		22	6.6							8.2		4,630	< 90		
MAX.		24	7.9							8.3		35,000	1300		
MIN.		20	4.8							8.1		220	< 20		

COLORADO RIVER BASIN STUDIES

TABLE 16

Station C-17 - Colorado River. At Highway 160 bridge above Needles

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	Fe (Total) mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l
															0.5	0.5	< 0.02	0.05	0.04	0.02	< 0.04
8-17	1150	26	6.9	28	1960	51	6	146	8.2	130	790	< 20			0.4	-	-	0.05	-	-	-
18	0935	24	4.2	37	1930	46	5	152	8.3	140	700	20			0.4	-	-	0.06	-	-	-
19	1015	23	6.9	40	1890	33	4	158	8.4	170	1100	< 20			0.5	-	-	0.06	-	-	-
22	1000	22	5.2	48	1950	60	4	146	8.3	150	210	20			0.5	-	-	0.07	-	-	-
23	0950	23	6.6	58	2010	53	2	146	8.3	150	1100	< 20			6.6	18.5	< 0.02	0.35	0.10	0.02	< 0.04
24	0950	22	6.4	435	2110	1110	94	154	8.1	210	11000	460									
															1.5	9.5	< 0.02	0.11	0.07	0.02	< 0.04
AVG.		24	6.0	108	1980	225	19	150	8.3	158	1080	< 30			6.6	18.5	< 0.02	0.35	0.10	0.02	< 0.04
MAX.		26	6.9	435	2110	1110	94	158	8.4	210	11000	460			0.4	0.5	< 0.02	0.05	0.04	0.02	< 0.04
MIN.		22	4.2	28	1890	33	2	146	8.1	130	210	< 20									

Date	NH_3-N mg/l	NO_3-N mg/l	Org.N mg/l	Total P ug/l	Sol. P ug/l
8-19	0.55	2.4	0.9	42	10
23	0.24	1.8	0.9	56	< 5
AVG.	40	2.1	0.9	49	< 8

COLORADO RIVER BASIN STUDIES

TABLE 17

Station C-18 - Colorado River - Below Lamb Highway 279 to sign pointing to cliff, big rock in river on left.

	DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	Fe (Total) mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l
																0.6	0.5	< 0.02	0.06	< 0.02	< 0.02	< 0.04
	8-17	1215	26	6.8	29	1940	52	8	148	8.2	130	2,100	< 20			0.4	-	-	0.06	-	-	-
	18	0915	24	6.6	32	1940	42	4	152	8.3	140	1,300	230			0.6	-	-	0.08	-	-	-
	19	1040	23	7.2	63	1900	51	6	140	8.3	140	13,000	790			0.5	-	-	0.06	-	-	-
	22	0935	21	7.1	48	1970	63	6	148	8.3	150	1,700	330			0.5	-	-	0.06	-	-	-
	23	1050	23	6.6	56	2000	45	3	149	8.3	150	4,600	330			3.2	9.3	< 0.02	0.20	0.04	0.02	< 0.04
	24	1015	21	6.6	265	2060	444	46	153	8.2	150	13,000	330									
																1.0	4.9	< 0.02	099	< 0.03	< 0.02	< 0.04
	AVG.		23	6.8	82	1970	117	12	152	8.3	148	3,900	< 285			3.2	9.3	< 0.02	0.20	0.04	0.02	< 0.04
	MAX.		26	7.2	265	2060	444	46	160	8.3	180	13,000	790			0.6	0.5	< 0.02	0.06	< 0.02	< 0.02	< 0.04
	MIN.		21	6.6	29	1900	51	3	148	8.2	130	1,300	< 20									

Date	NH_3-N mg/l	NO_3-N mg/l	Org.N mg/l	Total P ug/l	Sol. P ug/l
8/19	0.14	2.4	0.9	74	< 5
23	0.12	1.9	0.9	60	< 5
AVG	0.13	2.2	0.9	67	< 5

COLORADO RIVER BASIN STUDIES

TABLE 17A

Station M-5 I - Grand Junction Sewage Treatment Plant (Southside)

I - Inflow

DATE	SHIFT	COLIFORM, MPN/100 ml in thousands Total	Fecal	SUSPENDED SOLIDS mg/l Total	Volatile	B.O.D. mg/l 2-day	5-day	pH
Aug. 24-25	I	54,000	13,000	344	270	170	260	7.3
Aug. 25	II	160,000	22,000	372	330	120	110	7.5
Aug. 25	III	92,000	11,000	164	116	110	187	7.5
Aug. 25	IV	170,000	13,000	158	126	120	193	7.1
Aug. 25-26	V	> 160,000	> 160,000	188	140	120	200	7.3
Aug. 26	VI	110,000	33,000	196	152	110	160	7.5
AVG.		115,500	24,500	237	189	125	185	7.4
MAX.		> 160,000	> 160,000	372	330	170	260	7.5
MIN.		54,000	11,000	158	116	110	110	7.1

NOTE:

Shift I	Aug. 24-25	6:30 PM - 12:30 AM
II	Aug. 25	1:30 AM - 7:30 AM
III	Aug. 25	8:30 AM - 2:30 PM
IV	Aug. 25	3:30 PM - 9:30 PM
V	Aug. 25-26	10:30 PM - 4:30 AM
VI	Aug. 26	5:30 AM - 11:30 AM

COLORADO RIVER BASIN STUDIES

TABLE 17B

Station M-5 O - Grand Junction Sewage Treatment Plant (Southside)

O - Effluent

DATE	SHIFT	COLIFORM, MPN/100 ml in thousands Total	Fecal	SUSPENDED SOLIDS mg/l Total	Volatile	B.O.D. mg/l 2-day	5-day	pH
Aug. 24-25	I	92,000	35,000	59	40	29	66	7.5
Aug. 25	II	54,000	24,000	28	16	26	60	7.6
Aug. 25	III	160,000	54,000	51	36	270	52	7.6
Aug. 25	IV	33,000	17,000	86	60	52	90	7.4
Aug. 25-26	V	79,000	22,000	44	32	32	60	7.5
Aug. 26	VI	49,000	4,900	40	29	21	32	7.7
Avg.		68,300	20,900	51	36	72	60	7.6
Max.		160,000	54,000	86	60	270	90	7.7
Min.		33,000	4,900	28	16	21	32	7.4

NOTE:

Shift I	Aug. 24-25	6:30 PM - 12:30 AM
II	Aug. 25	1:30 AM - 7:30 AM
III	Aug. 25	8:30 AM - 2:30 PM
IV	Aug. 25	3:30 PM - 9:30 PM
V	Aug. 25-26	10:30 PM - 4:30 AM
VI	Aug. 26	5:30 AM - 11:30 AM

TABLE 10

COLORADO RIVER BASIN STUDIES

Station G-1 (Gunnison River) above Gunnison on Highway 135

Date	Time	Temp. °C	D.O. mg/l	Turb. Units	Conduct. μmho/cm	Dissolved Solids Total mg/l	Dissolved Solids Volatile mg/l	Fe (Total) mg/l	Chloride mg/l	pH	Alk. mg/l	Coliform MF/100ml Total	Coliform MF/100ml Fecal	Coliform MPN/100ml Total	Coliform MPN/100ml Fecal	Cyanide μg/l	Arsenic μg/l	B.O.D. mg/l 3-day	B.O.D. mg/l 5-day	Al mg/l	Cd mg/l	Mn mg/l	Zn mg/l	Cu mg/l	As mg/l
G-1	1055	14	7.6	< 25	200	-	-	0.2	3	8.0	90.0			160	17					< 0.5	< 0.02	0.04	< 0.02	< 0.02	< 0.04
2	1220	13	7.1	< 25	198	9	1	0.1	2	8.0	90.0			230	49					-	-	0.04	-	-	-
3	1040	13	7.8	< 25	198	11	< 1	0.1	< 1	8.1	90.0			370	80					-	-	< 0.02	-	-	-
4	1045	12	6.7	< 25	197	9	1	0.1	< 1	7.9	90.0			230	44					-	-	0.03	-	-	-
5	1015	11	7.0	< 25	199	5	< 1	0.2	< 1	8.1	90.0			130	4					-	-	0.02	-	-	-
8	1015	11	7.0	< 25	198	7	< 1	0.2	1	8.0	90.0			150	24					-	-	0.02	-	-	-
9	1035	12	7.0	< 25	197	4	3	0.1	< 1	7.5	90.0			40	6					-	-	0.02	-	-	-
10	1045	12	7.7	< 25	198	7	2	0.1	< 1	7.5	90.0			680	180					-	-	0.02	-	-	-
11	1030	12	6.8	< 25	199	10	5	0.2	< 1	8.1	80.0			60	10					-	-	< 0.02	-	-	-
12	1050	12	7.2	< 25	194	8	2	0.1	< 1	8.1	80.0			770	37					< 0.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04
AVG.		12	7.1	< 25	196	8	< 2	0.1	< 1	7.9	88			280	80					< 0.5	< 0.02	< 0.025	< 0.02	< 0.02	< 0.04
MAX.		14	7.7	< 25	200	11	5	0.2	3	8.1	90			680	180					< 0.5	< 0.02	0.04	< 0.02	< 0.02	< 0.04
MIN.		11	6.7	< 25	198	4	< 1	0.1	< 1	7.5	80			40	4					< 0.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04

Date	NO_3-N mg/l	NH_3-N mg/l	Org. N mg/l	Total P mg/l	Sol. P mg/l
8-4	0.08	< 0.1	0.3	10	< 5
9	0.08	< 0.1	0.2	10	< 5
AVG.	0.08	< 0.1	0.2	10	< 5

TABLE 19

COLORADO RIVER BASIN STUDY

Station CHC-2 (Ohio Creek) 2.5 miles up from mouth

Date	Time	Temp. °C.	D.O. mg/l	pH	COLIFORM Total MF/100	COLIFORM Fecal ml
8-1	1045	17	7.2	7.9	700	90
2	0935	16	6.8	8.0	1800	190
3	1005	16.5	6.6	8.1	3900	1300
4	1010	15.5	5.4	8.2	5000	1100
5	1000	14	6.9	8.1	720	170
8	1000	13	6.8	8.1	520	140
9	1025	13	7.0	8.1	220	10
10	1010	13	7.6	8.0	260	100
11	1010	14	6.6	8.1	180	80
12	0945	13	7.4	8.0	520	90
AVG.		14	6.8	8.1	740	140
MAX.		17	7.6	8.2	5000	1300
MIN.		13	5.4	7.9	180	10

TABLE XD

COLORADO RIVER BASIN STUDIES

Station G-3 (Gunnison River) about 3 miles below Gunnison

DATE	TIME	TEMP. °F	D.O. mg/l	TURB. Units	CONDUCT. µmho cm	SUSP. SOLIDS Total mg/l	DISS. SOLIDS Volatile mg/l	Fe (Total) mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	CYANIDE µg/l	ARSENIC mg/l	B.O.D. mg/l 3-day	B.O.D. mg/l 5-day	Al mg/l	Cd mg/l	Zn mg/l	Zn mg/l	Cu mg/l	As mg/l
8-1	1145	17	8.05	< 25	245	20	?	0.3	?	8.1	110	4000	200	3400	800					< 0.5	< 0.02	0.05	< 0.02	< 0.02	< 0.04
2	1045	15	7.5	< 25	208	6	?	2.0	1	8.0	100	350	40	490	230					-	-	0.04	-	-	-
3	1100	16	7.0	< 25	247	14	?	0.2	?	8.3	110	4200	720	13,000	3,300					-	-	0.07	-	-	-
4	1110	16	7.0	< 25	244	14	?	0.3	< 1	8.1	110			35,000	2,200					-	-	0.07	-	-	-
5	1100	14	7.9	< 25	242	7	?	0.2	< 1	8.2	110			7,000	790					-	-	0.07	-	-	-
6	1105	13	7.3	< 25	247	8	?	0.2	?	8.1	110			2,300	490					-	-	0.05	-	-	-
9	1100	13	7.9	< 25	240	8	4	0.2	?	7.8	100			2,300	230					-	-	0.04	-	-	-
10	1045	13	8.0	< 25	238	8	1	0.2	?	7.6	100			4,600	1,700					-	-	0.04	-	-	-
11	1045	14	6.5	< 25	233	11	1	0.1	< 1	8.0	100			1,700	1,300					-	-	0.03	-	-	-
12	1015	12	7.7	< 25	231	10	< 1	< 0.1	?	8.1	100			4,900	790					< 0.5	< 0.02	0.03	< 0.02	< 0.02	< 0.04
AVG.		14	7.3	< 25	240	11	< ?	< 0.4	< ?	8.0	105			3,300	850					< 0.5	< 0.02	0.04	< 0.02	< 0.02	< 0.04
MAX.		17	8.0	< 25	247	20	4	2.0	?	8.3	110			35,000	3,300					< 0.5	< 0.02	0.07	< 0.02	< 0.02	< 0.04
MIN.		12	6.5	< 25	208	6	< 1	< 0.1	< 1	7.6	100			490	230					< 0.5	< 0.02	0.03	< 0.02	< 0.02	< 0.04

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P mg/l	Sol. P mg/l
8-4	0.10	< 0.1	0.3	45	< 5
9	0.08	< 0.1	0.8	28	5
AVG.	0.09	< 0.1	0.8	36	< 5

TABLE 21

COLORADO RIVER BASIN STUDY

Station G-4 (Gunnison River) at Highway 149 bridge above headwaters of Blue Mesa Reservoir

Date	Time	Temp. °C.	D.O. mg/l	pH	COLIFORM Total MF/100 ml	COLIFORM Fecal MF/100 ml	COLIFORM Total MPN/100 ml	COLIFORM Fecal MPN/100 ml
8-1-66	1200	17	8.4	8.3	1200	26	1100	330
2	1105	16.5	7.8	8.2	1500	280	2300	490
3	1110	16	7.0	8.2	4600	810	24 00	940
4	1125	16	7.2	8.4			7000	230
5	1115	15	7.6	8.3			1400	230
8	1125	14	7.4	8.3			3300	110
9	1120	14	7.6	8.3			2200	230
10	1100	13	8.2	8.2			3300	700
11	1100	15	6.8	8.3			1100	230
12	1035	13	7.8	8.2			4600	790
AVG.		15	7.6	8.3			3060	350
MAX.		17	8.4	8.4			24000	940
MIN.		13	6.8	8.2			1100	110

TABLE 22

COLORADO RIVER BASIN STUDIES

Station G-5 (Gunnison River)

DAT	TIME	TEM. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	MANGANESE mg/l	pH	ALK. mg/l	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	CYANIDE µg/l	ARSENIC mg/l	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	As mg/l
																				< 0.5	< 0.02	0.03	< 0.02	< 0.02	< 0.04
8-1	1245	14	8.0	< 25	190	10	?	< 0.1	?	7.6	80	5,000	< ?							-	-	0.03	-	-	-
2	1150	16	7.5	< 25	186	7	?	0.1	3	7.7	80	4,800	< ?							-	-	< 0.02	-	-	-
3	1150	16	7.0	< 25	184	10	?	< 0.1	1	8.0	70	4,200	< ?							-	-	0.03	-	-	-
4	1200	14	7.0	< 25	141	14	?	< 0.1	< 1	7.9	80	4,600	< ?							-	-	0.04	-	-	-
5	1200	14	7.2	< 25	188	7	1	0.1	< 1	8.0	70	4,600	< ?							-	-	0.04	-	-	-
6	1200	15	7.0	< 25	193	4	< 1	0.1	?	8.0	80	2,400	4							-	-	0.03	-	-	-
9	1200	15	7.1	< 25	192	8	1	0.1	1	7.7	80	1,900	< ?							-	-	< 0.02	-	-	-
10	1140	15	7.7	< 25	197	7	?	< 0.1	?	7.6	80	1,400	< ?							-	-	0.03	-	-	-
11	1140	16	7.6	< 25	206	14	?	0.1	3	7.7	80	880	< ?							< 0.5	< 0.02	0.03	< 0.02	< 0.02	< 0.04
12	1110	11	7.5	< 25	204	9	?	0.1	?	7.6	80	1,300	< ?							< 0.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04
AVG.		15	7.4	< 25	190	9	< ?	< 0.1	< ?	7.8	78	2,620	< ?							< 0.5	< 0.02	0.04	< 0.02	< 0.02	< 0.04
MAX.		16	8.0	< 25	206	14	?	0.1	3	8.0	80	5,000	4							< 0.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04
MIN.		11	7.0	< 25	141	4	< 1	< 0.1	< 1	7.6	70	880	< ?												

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P mg/l	Sol. P mg/l
8-4	0.14	< 0.1	0.8	25	5
9	0.08	< 0.1	0.4	35	7
AVG.	0.11	< 0.1	0.3	30	6

TABLE 23

COLORADO RIVER BASIN STUDY

Station NFG-6 (North Fork of Gunnison River) above Paonia

Date	Time	Temp. °C.	D.O. mg/l	pH	COLIFORM Total MF/100	COLIFORM Fecal ml
8-1	0945	18.5	7.0	8.0	1800	120
2	0930	18	7.3	7.8	800	100
3	1135	21	7.0	8.0	2500	510
4	1035	18	-	8.0	7700	2000
5	0915	17	6.6	8.1	1100	22
8	1130	19.5	3.2	8.3	6000	70
9	1040	15	8.6	8.2	17000	180
10	1010	15	10.0	8.1	1100	74
11	1120	18	9.5	8.2	1000	78
12	0945	15	9.0	8.2	2400	200
AVG.		18	7.6	8.1	2460	140
MAX.		21	10.0	8.3	17000	2000
MIN.		15	3.2	7.8	800	22

TABLE 24

COLORADO RIVER BASIN STUDY

Station NFG-7 (North Fork of Gunnison River) Below Paonia

Date	Time	Temp. °C.	D.O. mg/l	pH	COLIFORM Total MF/100	COLIFORM Fecal ml	COLIFORM Total MPN/100	COLIFORM Fecal ml
8-1	1010	21	8.0	8.2	12,000	50	7,000	< 20
2	0945	20	8.1	8.1	9,000	160	11,000	700
3	1115	22	8.4	8.3	24,000	510	35,000	790
4	1100	18	-	8.0			28,000	4900
5	0935	18	6.6	8.1			35,000	2300
8	1110	20	4.4	8.3			7,900	230
9	1020	17	8.4	8.2			35,000	790
10	1030	17	10.1	8.2			24,000	790
11	1100	18	9.4	8.2			17,000	1800
12	1000	16	8.4	8.1			24,000	790
AVG.		18	8.0	8.2			19,300	< 690
MAX.		22	10.1	8.3			35,000	4900
MIN.		16	4.4	8.0			7,000	< 20

TABLE 25

COLORADO RIVER BASIN STUDY

Station NFG-8 (North Fork of Gunnison River) Above Hotchkiss (B St.)

Date	Time	Temp. °C.	D.O. mg/l	pH	COLIFORM Total MF/100 ml	COLIFORM Fecal MF/100 ml	COLIFORM Total MPN/100 ml	COLIFORM Fecal MPN/100 ml
8-1	1035	22	7.4	8.1	200	70	2200	700
2	1010	20	7.8	8.0	300	120	3300	130
3	1050	22	8.4	8.1	700	220	7900	700
4	1125	24	-	8.1			24000	4900
5	1000	20	5.6	8.1			54000	13000
8	1045	22	4.9	8.2			9400	490
9	1000	17.5	7.8	8.1			11000	210
10	1055	18	10.1	8.2			1700	130
11	1035	18	9.4	8.1			4900	130
12	1020	18	8.6	8.1			1700	130
AVG.		20	7.8	8.1			6360	500
MAX.		24	10.1	8.2			54000	13000
MIN.		17.5	4.9	8.0			1700	130

TABLE 55

COLORADO RIVER BASIN STUDIES

Station NFG-9 (North Fork of Gunnison River)

DATE	TIME	TEMP. °C	D.O. mg/l	TURB. Units	CONDUCT. µmho cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	CYANIDE µg/l	ARSENIC mg/l	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	Al mg/l	Cd mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l
8-1	1100	22	8.6	< 25	1800	46	5	0.2	14	7.9	260	1,500	160	3,100	500					< 0.5	< 0.02	0.08	< 0.02	< 0.02	< 0.04
2	1035	20	9.6	< 25	1770	51	2	< 0.1	3	8.2	280	2,000	590	4,900	1,100					-	-	< 0.02	-	-	-
3	1030	19	9.6	< 25	1600	27	5	0.1	12	8.2	270	1,900	480	2,200	1,100					-	-	0.07	-	-	-
4	1150	23	-	140	1430	300	12	0.7	9	8.2	270			17,000	940					-	-	0.32	-	-	-
5	1020	21	6.2	990	1610	904	52	7.1	10	8.1	280			24,000	3,300					-	-	0.42	-	-	-
8	1030	22	5.0	25	2080	63	8	0.3	14	8.1	250			7,900	230					-	-	0.10	-	-	-
9	930	18	7.4	< 25	2050	7	1	0.3	14	8.1	250			13,000	330					-	-	0.13	-	-	-
10	1115	18	10.2	< 25	2140	32	2	0.2	17	8.1	240			7,000	790					-	-	0.12	-	-	-
11	1015	18	9.4	< 25	2140	30	4	0.1	17	8.1	250			7,000	790					-	-	0.11	-	-	-
12	1040	18	9.2	< 25	2090	38	4	0.1	14	8.0	260			7,900	730					< 0.5	< 0.02	0.11	< 0.02	< 0.02	< 0.04
AVG.		20	8.4	133	1870	147	10	< 0.9	12	8.1	261			7,470	770					< 0.5	< 0.02	< 0.134	< 0.02	< 0.02	< 0.04
MAX.		23	10.2	990	2140	904	52	7.1	17	8.2	280			24,000	3,300					< 0.5	< 0.02	0.42	< 0.02	< 0.02	< 0.04
MIN.		18	5.0	< 25	1430	7	1	< 0.1	3	7.9	240			2,200	230					< 0.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P mg/l	Sol. P mg/l
8-4	0.06	0.7	1.1	28	< 5
9	0.06	0.5	0.6	33	11
AVG.	0.06	0.6	0.8	30	< 8

TABLE 27

COLORADO RIVER BASIN STUDIES

Station G-10 (Gunnison River)

DAY	TIME	TEM. °C	D.O. mg/l	TURB. Units	CONDUCT. µmho cm	SOLIDS Total mg/l	SOLIDS Volatile mg/l	Fe (Total) mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	CYANIDE µg/l	ARSENIC mg/l	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	Al mg/l	CR mg/l	Ni mg/l	Zn mg/l	Cu mg/l	Ag mg/l
8-1	1140	23	7.4	< 25	865	28	3	0.3	12	8.2	130	100	< 2	260	< 20					< 0.5	< 0.02	0.0[illegible]	0.02	< 0.02	< 0.04
2	1100	23	7.8	< 25	834	28	5	0.3	12	7.8	120	100	2	1300	20							0.09			
3	1215	20	8.4	< 25	837	25	6	0.4	12	8.2	120	400	14	1400	20							0.05			
4	1000	18	-							8.1				2300	80										
5	1050	23	6.6							8.2				1300	110		0								
8	1000	21	5.4							8.1				320	20										
9	900	19	6.3							8.0				1300	50										
10	935	18	8.1							8.1				4900	40										
11	945	18	8.2							8.1				1300	70										
12	905	17	7.3							8.0				1700	< 20										
AVG.		20	7.3	< 25	845	27	5	0.3	12	8.1	123			1 00	< 40					< 0.5	< 0.02	0.07	0.02	< 0.02	< 0.04
MAX.		23	8.4	< 25	865	28	6	0.4	12	8.2	130			4900	110							0.09			
MIN.		17	6.3	< 25	834	25	3	0.3	12	7.8	120			260	< 20							0.05			

TABLE 16

COLORADO RIVER BASIN STUDIES

Station G-11 (Gunnison River)

DATE	TIME	TEMP. °C	D.O. mg/l	TURB. Units	CONDUCT. µmho cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	CYANIDE µg/l	ARSENIC mg/l	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l
8-1	1230	25	7.6							8.4		1100	82	4,300	230					-	-	-	-	-	-
2	1150	25	8.1							8.1		1100	430	22,000	3,300					-	-	-	-	-	-
3	950	22	6.8							8.2		1600	90	13,000	330					-	-	-	-	-	-
4	945	22	4.8	65	1510	92	< 1	0.9	14	8.0	170			35,000	330							0.11			
5	1120	24	-	75	1100	82	4	0.8	13	8.2	180			35,000	270		0					0.12			
8	945	22	5.6	29	1360	54	10	0.5	15	8.1	160			4,900	330							0.12			
9	845	20	6.2	< 25	1430	32	4	0.5	15	8.1	170			4,100	110							0.09			
10	920	18	8.0	27	1500	42	6	0.3	13	7.9	170			13,000	230							0.11			
11	930	18	8.2	< 25	1520	45	6	0.4	17	8.1	170			4,600	490							0.11			
12	845	18	7.3	< 25	1500	30	3	0.4	15	7.8	170			17,000	140					0.5	< 0.02	0.10	< 0.02	< 0.02	< 0.04
AVG.		21	7.0	< 39	1480	54	< 5	0.6	15	8.1	170			11,350	920							0.109			
MAX.		25	8.2	75	1570	92	10	0.9	18	8.4	180			35,000	3,300							0.12			
MIN.		18	4.8	< 25	1100	30	< 1	0.3	13	7.8	160			4,100	110							0.10			

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P mg/l	Sol. P mg/l
8-4	0.30	0.7	0.8	125	-
9	0.11	0.6	0.6	47	5
AVE.	0.20	0.6	0.7	86	5

TABLE 29

COLORADO RIVER BASIN STUDIES

Station G-12 (Gunnison River)

DAY	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	CYANIDE µg/l	ARSENIC mg/l	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	Al µg/l	Cr µg/l	Mn µg/l	Zn µg/l	Cu µg/l	As µg/l
8-1	1245	26	7.4	33	1650	42	4	0.6	14	8.2	190	13,000	1,900	35,000	11,000					2.0	< 0.02	0.12	< 0.02	< 0.02	< 0.04
2	1215	23	7.1	310	1660	292	24	2.0	15	7.9	200	53,000	8,500	92,000	35,000					-	-	0.18	-	-	-
3	930	21	5.8	52	1640	80	5	0.8	15	8.1	190	25,000	1,500	49,000	5,000					-	-	0.14	-	-	-
4	920	21	-	82	1550	104	< 1	0.8	14	8.2	190			28,000	1,100					-	-	0.11	-	-	-
5	1145	24	6.8	50	1,682	53	4	0.4	14	8.2	190			17,000	4,900					-	-	0.12	-	-	-
8	920	21	5.2	26	1620	36	6	0.4	15	8.1	190			3,300	1,100					-	-	0.12	-	-	-
9	1130	22	7.8	< 25	1640	22	4	0.3	15	8.2	180			22,000	7,000					-	-	0.10	-	-	-
10	905	18	8.0	< 25	1660	36	6	0.3	18	7.9	190			17,000	1,300					-	-	0.11	-	-	-
11	920	18	8.2	< 25	1660	35	4	0.3	18	8.1	190			33,000	1,100					-	-	0.12	-	-	-
12	825	18	7.2	< 25	1700	31	2	0.3	16	7.8	190			33,000	3,300					0.5	< 0.02	0.12	< 0.02	< 0.02	< 0.04
AVG.		21	7.1	< 65	1640	73	< 6	0.6	16	8.1	190			25,100	3,300					1.25	< 0.02	0.114	< 0.02	< 0.02	< 0.04
MAX.		26	8.2	310	1700	292	24	2.0	18	8.2	200			92,000	35,000					2.0	< 0.02	0.18	< 0.02	< 0.02	< 0.04
MIN.		18	5.0	< 25	1550	22	< 1	0.3	14	7.8	180			3,300	1,100					0.5	< 0.02	0.10	< 0.02	< 0.02	< 0.04

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P mg/l	Sol. P mg/l
8-4	0.51	0.9	0.8	110	-
9	0.18	0.8	0.6	40	5
AVG.	0.34	0.8	0.7	80	5

TABLE 30

COLORADO RIVER BASIN STUDY

Station G-13 (Gunnison River) on Escalante Canyon Road

Date	Time	Temp. °C.	D.O. mg/l	pH	COLIFORM MF/100 ml Total	COLIFORM MF/100 ml Fecal	COLIFORM MPN/100 ml Total	COLIFORM MPN/100 ml Fecal
8-1-66	1315	24	7.3	8.3	3400	260	13000	1300
2	1240	24	7.4	8.1	5400	520	7900	790
3	0910	22	6.2	8.1	8000	520	2400	2300
4	0900	23	-	8.1			35000	2200
5	1205	25	7.0	8.2			13000	490
8	0900	23	5.2	8.1			4600	700
9	1200	22	7.6	8.2			3300	490
10	0845	20	7.1	8.1			14000	1700
11	0900	20	7.3	8.1			13000	1700
12	0800	18	7.0	8.1			4900	1300
AVG.		22	6.9	8.1			8280	1130
MAX.		25	7.6	8.3			35000	2300
MIN.		18	5.2	8.1			2400	490

TABLE 31

COLORADO RIVER BASIN STUDY

Station G-14 (Gunnison River) on Highway 141 Bridge

Date	Time	Temp. °C.	D.O. mg/l	pH	COLIFORM Total MF/100 ml	COLIFORM Fecal MF/100 ml	COLIFORM Total MPN/100 ml	COLIFORM Fecal MPN/100 ml
8-1-66	1345	27	7.2	8.3	200	20	1300	800
2	1310	26	8.0	8.2	400	20	790	140
3	0830	24	4.4	8.2	2300	20	700	50
4	0830	23.5	-	8.2	-	-	3300	80
5	1240	26	5.4	8.1	-	-	4600	700
8	0830	24	5.2	8.2	600	14		
9	1230	23	6.8	8.2	800	10		
10	0815	21	7.0	8.2	600	2		
11	0830	22	7.0	8.2	200	2		
12	0730	20	7.0	8.2	1100	24		
AVG.		24	6.4	8.2	570	10		
MAX.		27	8.0	8.3	2300	24		
MIN.		20	4.4	8.1	200	2		

TABLE 39

COLORADO RIVER BASIN STUDIES

Station G-15 (Gunnison River) in Grand Junction, Colorado

DAY	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. μmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	CYANIDE μg/l	ARSENIC mg/l	B.O.D. mg/l 3-day	B.O.D. mg/l 5-day	Al mg/l	Cd mg/l	Mn mg/l	Zn mg/l	Cu mg/l	As mg/l
8-1	1400	26	7.6	12	1659	26	3	0.4	16	8.1	160	400	19	1100	80	0	0.009			0.5	< 0.02	0.08	0.03	< 0.02	< 0.04
2	1130	28	9.0	28	1640	15	-	0.4	16	8.2	160	800	6	170	< 20	0	0			-	-	0.09	-	-	-
3	1110	27	8.2	40	1630	47	2	0.4	16	8.3	160	400	30	7000	130		-			-	-	0.08	-	-	-
4	1110	26	-	60	1660	55	2	0.4	16	8.1	170	-	-	2800	70		0			-	-	0.07	-	-	-
5	1300	27	7.8	54	1690	44	4	0.4	16	8.3	160	-	-	1300	110		0			-	-	0.05	-	-	-
8	0815	24	5.2	33	1650	31	6	0.4	17	8.1	170	800	19							-	-	0.06	-	-	-
9	1245	25	6.8	39	1670	39	6	0.3	18	8.2	160	180	10				0			-	-	0.08	-	-	-
10	1230	24	6.6	89	1660	89	5	0.2	20	8.0	160	300	6				0			-	-	0.11	-	-	-
11	1340	24	7.4	27	1700	35	3	0.4	20	8.1	150	40	8				0			-	-	0.08	-	-	-
12	0700	20	5.3	28	1730	23	3	0.3	17	7.9	150	2400	8				0			1.0	< 0.02	0.08	< 0.02	0.02	< 0.04
17	1535	25	8.0	51	1710	44	2	0.5	29	8.2	160			460	< 20			1.0	1.3	1.0	< 0.02	0.08	0.02	0.02	< 0.04
18	0900	22	6.6	-	-	-	-	-	-	-	-			110	< 20			-	-	-	-	-	-	-	-
	1430	25	7.4																						
19	1500	-	-	80	1790	56	6	0.8	29	7.8	150			340	< 20			1.1	1.9	-	-	0.09	-	-	-
22	1430	28	7.4	-	-	-	-	-	-	-	-			1300	40			-	-	-	-	-	-	-	-
23	0800	20	6.6	54	1870	69	5	0.6	23	8.2	180			580	70			1.5	1.7	-	-	0.07	-	-	-
24	1205	21	7.1	-	-	-	-		-	-	-			7990	50			-	-						
AVG.		25	7.1	46	1710	38	4	0.4	18	8.1	161	315	10	1160	< 30	0	0.000	1.2	1.8	0.83	< 0.02	0.08	< 0.02	< 0.02	< 0.04
MAX.		28	9.0	54	1880	69	9	0.8	23	8.3	180	2400	30	7300	130	0	0.009	1.5	2.3	1.0	< 0.02	0.11	0.03	0.02	< 0.04
MIN.		20	5.2	27	1640	15	2	0.2	16	7.8	150	40	6	110	< 20	0	0	1.0	1.5	0.5	< 0.02	0.05	< 0.02	< 0.02	< 0.04

Date	NH_3-N mg/l	NO_3-N mg/l	Org.N mg/l	Total P mg/l	Sol. P mg/l
8-4	0.20	1.0	1.0	60	—
9	0.18	0.7	0.9	33	5
19	0.08	0.7	0.9	58	10
25	0.12	0.7	0.8	60	5
AVG	0.15	0.78	0.9	53	7
MAX	0.20	1.0	1.0	60	10
MIN	0.08	0.7	0.8	33	5

COLORADO RIVER BASIN STUDIES

TABLE 13

Station P-19 - Price River. On Highway 50, upstream of Castle Gate Bridge 0.6 mile.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	0735	17	7.1	< 25	342	40	3	11	8.4	150	2800	30		
18	0845	17	6.7	< 25	336	51	4	8	8.4	160	700	< 20		
19	0650	17	6.5	< 25	329	70	4	11	8.5	150	4900	50		
22	1000	16	7.8	< 25	330	54	4	9	8.5	150	2200	60		
23	-	-	-	< 25	330	42	2	8	8.5	160	790	110		
24	-	-	-	< 25	337	97	7	8	8.5	160	2800	50		
AVG.		17	7.0	< 25	330	59	4	9	8.5	157	1900	< 60		
MAX.		17	7.8	< 25	342	97	7	11	8.5	160	4900	110		
MIN.		16	6.5	< 25	329	40	2	8	8.4	150	700	< 20		

DATE	Fe mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P ug/l	Sol. P ug/l
8-17	0.2	< 0.5	0.02	0.06	< 0.02	< 0.02	< 0.04					
18	0.4			0.10								
19	0.2			0.08				0.06	< 0.1	0.7	68	< 5
22	0.3			0.08								
23	0.4			0.08				0.09	< 0.1	0.8	64	< 5
24	0.6	< 0.5	< 0.02	0.10	< 0.02	0.02	< 0.04					
AVG.	0.4	< 0.5	< 0.02	0.08	< 0.02	< 0.02	< 0.04	0.08	< 0.1	0.8	66	< 5
MAX.	0.6			0.10								
MIN.	0.2			0.06								

COLORADO RIVER BASIN STUDIES

TABLE 34

Station P-20 - Price River. At Bridge into Castle Gate - above AEC Independent Coal & Coke Co.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	ORGANIC CARBON mg/l
8-17	0750	17	7.0	< 25	340	68	5	10	8.4	150					-
18	0830	17	6.8	< 25	346	67	6	6	8.5	160					-
19	0700	17	6.7	< 25	339	70	4	9	8.5	150					21
22	1010	15	8.0	< 25	342	47	4	8	8.5	170					< 15
23	-	-	-	< 25	339	54	5	8	8.5	160					< 15
24	-	-	-	< 25	345	106	9	8	8.5	160					< 15
AVG.		16	7.1	< 25	340	69	6	8	8.5	158					< 17
MAX.		17	8.0	< 25	346	106	9	10	8.5	170					21
MIN.		15	6.7	< 25	339	47	4	6	8.4	150					< 15

DATE	Fe mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l	NH_3-N mg/l	NO_3-N mg/l	Org. P mg/l	Total P µg/l	Sol. P µg/l	COD mg/l
8-17	0.2	< 0.5	< 0.02	0.07	< 0.02	< 0.02	< 0.04						
18	0.4			0.08									
19	0.3			0.10				0.26	< 0.1	0.9	68	< 5	56
22	0.3			0.11									
23	0.4			0.08				0.12	< 0.1	0.8	60	< 5	< 40
24	0.6	< 0.5	< 0.02	0.11	< 0.02	< 0.02	< 0.04						
Avg.	0.4	< 0.5	< 0.02	0.09	< 0.02	< 0.02	< 0.04	0.19	< 0.1	0.8	64	< 5	< 48
Max.	0.6			0.11									
Min.	0.2			0.07									

COLORADO RIVER BASIN STUDIES

TABLE 35

Station P-21 - Price River. On Highway 33 below ARC Company at Power Plant

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 3-day	B.O.D. mg/l 5-day	ORGANIC CARBON mg/l
8-17	0810	17	7.0	< 25	342	65	4	8	8.4	150	1700	330			-
18	0810	17	6.6	< 25	351	70	5	8	8.5	160	4900	1300			-
19	0720	17	7.0	< 25	331	73	4	10	8.5	160	1700	330			< 15
22	1030	15	8.0	< 25	336	45	5	8	8.5	160	2300	1300			< 15
23	-	-	-	< 25	350	57	4	8	8.5	160	3300	700			< 15
24	-	-	-	< 25	341	114	10	8	8.5	160	6300	330			< 15
AVG.		16	7.2	< 25	340	71	5	8	8.5	158	2960	530			< 15
MAX.		17	8.0	< 25	351	114	10	10	8.5	160	6300	1300			< 15
MIN.		15	6.6	< 25	331	45	4	8	8.4	150	1700	330			< 15

DATE	Fe mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P ug/l	Sol. P ug/l	COD mg/l
8-17	0.3	< 0.5	< 0.02	0.07	< 0.02	< 0.02	< 0.04						
18	0.4			0.08									
19	0.3			0.10				0.04	< 0.1	0.8	80	< 5	< 40
22	0.3			0.09									
23	0.4			0.09				0.14	< 0.1	0.7	82	< 5	< 40
24	0.5	< 0.5	< 0.02	0.09	< 0.02	< 0.02	< 0.04						
AVG.	0.4	< 0.5	< 0.02	0.09	< 0.02	< 0.02	< 0.04						
MAX.	0.5			0.10									
MIN.	0.3			0.07									

TABLE 15A

COLORADO RIVER BASIN STUDIES

Station MC-21A On Highway 33 Below ARC Company #6 Power Plant

Date	Time	TEMP. °C.	D.O. ppm	TURB. Units	CONDUCT. umho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	pH	COLIFORM, MPN/100ml Total	COLIFORM, MPN/100ml Fecal	CHLORIDE mg/l	Fe mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l
6-17	-	-	-	-	-	-	-	-	-	-	-	-							
10	0820	15	7.0	10	850	340	96	76	8.5	24,000	1300	44	12.3			0.10			
19	0710	15	7.1	87	770	340	80	6	8.0	7000	1300	23	0.6			0.05			
22	1020	13	6.2	< 15	779	350	31	3	7.7	-	-	21	0.3			0.03			
23	-	-	-	< 5	7..	340	14	2	7..	-	-	8	< 0.1			0.02			
24	-	-	-	< 15	777	360	8	1	8.	-	-	21	0.2	< 0.5	< 0.02	0.02	< 0.02	< 0.02	< 0.04
AVG.		14	7..	< 10	790	350	42	17	7.6	15,900	1300	33	< .7			0.04			
MAX.		15	8.0	200	850	360	96	72	8.7	24,000	1300	44	12.3			0.10			
MIN.		13	7.0	< 5	770	340	8	2	8.5	7000	1300	8	< 0.1			0.02			

Date	NO_2-N mg/l	NO_3-N mg/l	Org.N mg/l	Total P mg/l	Sol. P mg/l
6-17					
10	0.05	< 0.1	0.4	81	< 5
20					
23	0.04	< 0.1	0.3	33	< 5
24					
Avg	0.04	< 0.1	0.3	57	< 5

COLORADO RIVER BASIN STUDIES

TABLE 36

Station P-22 - Price River. Above Helper

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	0830	16	7.9	< 25	351	80	5	10	8.4	150	940	170	-	-
18	0750	18	6.8	< 25	352	63	6	6	8.5	160	1300	490	1.5	4.0
19	0735	17	7.2	< 25	351	71	6	11	8.5	250	1100	230	1.1	2.0
22	1045	16	8.4	< 25	46	62	4	8	8.5	160	1300	330	0.8	1.9
23	-	-	-	< 25	354	56	5	9	8.5	160	7900	170	0.8	1.6
24	-	-	-	< 25	341	111	19	8	8.4	160	7900	330	1.1	3.0
AVG.		17	7.6	< 25	350	74	8	9	8.5	173	2190	270	1.1	2.5
MAX.		18	8.4	< 25	354	111	19	11	8.5	250	7900	490	1.5	4.0
MIN.		16	6.8	< 25	341	56	4	6	8.4	150	940	170	0.8	1.6

DATE	Fe mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l	NH_3-N mg/l	NO_3-N mg/l	Org N mg/l	Total P mg/l	Sol. P mg/l	COD mg/l
8-17	0.3	< 0.5	0.02	0.08	< 0.02	< 0.02	< 0.04	0.12	< 0.1	0.5	80	-	63
18	0.4			0.09				0.02	< 0.1	0.7	105	-	58
19	0.4			0.08				0.08	< 0.1	0.6	60	< 5	< 40
22	0.4			0.08				0.17	< 0.1	0.8	65	-	< 40
23	0.4			0.08				0.06	< 0.1	0.7	80	< 5	< 40
24	0.4	< 0.5	< 0.02	0.09	< 0.02	< 0.02	< 0.04	0.02	0.1	0.8	130	-	< 40
Avg.	0.4	< 0.5	< 0.02	0.08	< 0.02	< 0.02	< 0.04	0.08	< 0.1	0.6	87	< 5	< 47
Max.	0.4			0.09				0.17	0.1	0.8	130		63
Min.	0.3			0.08				0.02	< 0.1	0.5	60		< 40

COLORADO RIVER BASIN STUDIES
TABLE 37

Station P-23 - Price River. 2.5 miles below Helper on Highway 6-50 Bridge.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	0900	17	7.8	< 25	455	56	4	9	8.3	160	23,000	3,300	1.6	3.4
18	0730	17	6.6	< 25	464	-	-	11	8.3	170	33,000	7,900	2.4	3.8
19	0750	17	6.9	< 25	448	72	5	10	8.3	160	22,000	3,300	1.9	3.1
22	1100	16	8.2	< 25	454	54	4	6	8.4	180	240,000	49,000	0.8	2.4
23	-	-	-	< 25	467	72	7	12	8.3	170	7,000	1,400	0.7	1.5
24	-	-	-	< 25	441	157	10	11	8.4	170	33,000	11,000	1.3	3.3
AVG.		17	7.4	< 25	460	32	6	10	8.3	168	51,200	6,340	1.5	2.9
MAX.		17	8.2	< 25	467	157	10	12	8.4	180	240,000	49,000	2.4	3.8
MIN.		16	6.6	< 25	441	54	4	6	8.3	160	7,000	1,400	0.7	1.5

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P µg/l	Sol. P µg/l
8-17	0.16	0.2	0.6	87	-
18	0.06	0.2	0.7	22	-
19	0.02	0.2	0.7	76	< 5
22	0.16	0.2	0.8	96	-
23	0.04	0.2	0.7	-	< 5
24	0.04	0.2	0.9	120	-
AVG.	0.08	0.2	0.7	80	< 5
MAX.	0.16	0.2	0.9	120	
MIN.	0.02	0.2	0.6	22	

COLORADO RIVER BASIN STUDIES

TABLE 36

Station P-24 - Price River. At Carbon St. Bridge in Price.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	0940	18	9.5	< 25	2300	34	3	34	8.0	220	33,000	3,300	1.2	2.8
18	0650	17	5.6	< 25	2370	14	3	36	8.0	310	79,000	4,900	1.6	2.6
19	0810	17	6.7	< 25	2260	15	< 1	34	8.1	300	49,000	11,000	1.5	2.0
22	0900	14	8.5	< 25	2140	51	2	32	8.0	310	33,000	13,000	0.8	1.4
23	-	-	-	< 25	2120	54	3	35	8.0	290	240,000	33,000	1.1	2.0
24	-	-	-	< 25	2310	48	4	35	8.1	310	33,000	7,900	1.2	2.6
AVG.		16	7.6	< 25	2250	36	< 3	34	8.0	290	58,100	9,190	1.2	2.2
MAX.		18	9.5	< 25	2370	54	4	36	8.1	310	240,000	33,000	1.6	2.8
MIN.		14	5.6	< 25	2120	14	< 1	32	8.0	220	33,000	3,300	0.8	1.4

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P µg/l	Sol. P mg/l	COD mg/l
8-17	0.14	0.4	0.5	17	-	
18	0.18	0.8	0.4	73	-	
19	0.14	0.6	0.5	23	< 5	
22	0.18	0.6	0.7	25	-	
23	0.21	0.5	0.6	-	< 5	
24	0.26	0.6	0.6	125	-	
AVG.	0.18	0.6	0.6	53	< 5	
MAX.	0.26	0.8	0.7	125		
MIN.	0.14	0.4	0.4	17		

COLORADO RIVER BASIN STUDIES
TABLE 39

Station P-25 - Price River. Below Price sewer outfall.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	1000	20	7.4	< 25	2260	18	8	41	8.2	300	2,200,000	79,000	11.0	18.0
18	0700	17	3.4	< 25	2350	53	11	49	7.9	350	2,300,000	330,000	6.0	18.0
19	0825	17	4.2	< 25	2250	23	7	41	8.1	360	3,300,000	790,000	10.0	12.0
22	0845	16	6.7	32	2230	55	15	43	7.9	360	790,000	790,000	7.0	15.0
23	-	-	-	29	2150	88	17	41	8.2	360	-	-	16.0	22.0
24	-	-	-	26	2200	56	16	43	8.1	360	1,300,000	790,000	16.0	27.0
AVG.		17	5.4	< 27	2240	49	13	43	8.1	348	1,765,000	419,000	11.0	18.7
MAX.		20	7.4	32	2350	88	17	49	8.2	360	3,300,000	790,000	16.0	27.0
MIN.		16	3.4	< 25	2150	18	7	41	7.9	300	790,000	79,000	6.0	15.0

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P mg/l	Sol. P mg/l
8-17	4.80	0.4	1.9	930	-
18	1.62	0.3	1.2	480	-
19	-	0.3	1.3	480	130
22	2.72	0.5	2.0	655	-
23	5.80	0.4	2.6	1150	660
24	5.80	0.4	2.0	940	-
AVG.	4.15	0.4	1.8	772	395
MAX.	5.80	0.5	2.6	1150	
MIN.	1.62	0.3	1.2	480	

COLORADO RIVER BASIN STUDIES
TABLE 40

Station P-26 - Price River. At Highway 296 bridge - south of Wellington.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	1030	21	7.0	< 25	3070	35	3	50	7.9	270	17,000	1,300	2.0	4.1
18	0950	20	6.0	< 25	3150	48	4	54	8.0	310	17,000	3,300	2.3	3.5
19	0845	18	5.9	< 25	3130	58	5	48	8.0	320	49,000	7,900	2.5	4.2
22	0735	16	6.0	< 25	3100	48	8	48	8.0	320	220,000	22,000	2.3	4.2
23	-	-	-	< 25	7710	45	6	45	8.0	320	-	-	1.9	3.3
24	-	-	-	< 25	3080	43	4	55	8.1	320	170,000	17,000	1.8	3.6
AVG.		19	6.2	< 25	3670	46	5	50	8.0	310	56,700	6,620	2.2	3.8
MAX.		21	7.0	< 25	7710	58	8	55	8.1	320	220,000	22,000	2.5	4.2
MIN.		16	5.9	< 25	3070	35	3	48	7.9	270	17,000	1,300	1.8	3.3

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P ug/l	Sol. P ug/l
8-17	0.22	0.1	0.9	430	-
18	0.23	0.1	0.8	480	-
19	0.39	0.2	0.9	415	65
22	0.29	0.2	1.2	275	-
23	0.50	0.2	1.1	595	170
24	0.50	0.3	1.1	530	-
AVG.	0.36	0.2	1.0	454	118
MAX.	0.50	0.3	1.2	595	
MIN.	0.22	0.1	0.8	275	

COLORADO RIVER BASIN STUDIES
TABLE 41

Station FW-27 - Flood Wash. Upstream of Carbon Dioxide Chemical Co.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 3-day	B.O.D. mg/l 5-day
8-17	1045	19	8.8	< 25	3660	31	3	35	8.2	250	79,000	5,000	1.8	3.4
18	1000	18	8.1	38	4190	78	4	42	8.1	320	170,000	23,000	3.4	5.0
19	0900	16	7.3	< 25	5830	14	3	61	8.1	410	33,000	1,700	1.8	2.2
22	0800	13	7.4	93	4870	148	10	147	8.0	370	49,000	2,300	1.0	2.6
23	-	-	-	44	3430	81	7	33	8.1	300	110,000	13,000	1.4	2.4
24	-	-	-	< 25	3650	43	6	35	8.2	310	130,000	2,300	1.2	2.0
AVG.		17	7.9	< 42	4300	60	6	59	8.1	327	82,300	4,880	1.8	2.9
MAX.		19	8.8	93	5830	148	10	147	8.2	410	170,000	23,000	3.4	5.0
MIN.		13	7.3	< 25	3430	31	3	33	8.0	250	33,000	1,700	1.0	2.0

DATE	Fe mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l	NH_3-N mg/l	NO_3-N mg/l	Org. P mg/l	Total P mg/l	Sol. P mg/l
8-17	0.3	< 0.5	< 0.02	0.05	< 0.02	< 0.02	< 0.04	0.24	0.6	0.8	85	-
18	0.4			0.08				0.22	0.6	0.9	105	-
19	0.5			< 0.02				0.12	0.3	1.0	30	< 5
22	< 0.1			0.03				0.03	0.4	0.9	120	< 5
23	< 0.1			0.06				0.18	0.4	1.0	115	5
24	< 0.1	< 0.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04	0.12	0.6	0.9	55	-
Avg.	< 0.2	< 0.5	< 0.02	< 0.04	< 0.02	< 0.02	< 0.04	0.15	0.5	0.9	84	< 5
Max.	0.5			0.08				0.24	0.6	1.0	120	5
Min.	< 0.1			< 0.02				0.03	0.3	0.8	55	< 5

COLORADO RIVER BASIN STUDIES
TABLE 42

Station FW-28 - Flood Wash. At East Wellington R.R. bridge at entrance to Wellington Coal Cleaning Co.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	ORGANIC CARBON mg/l
8-17	1100	21	8.0	211	4050	97	< 1	44	7.6	270	2,200	490			-
18	1015	19	8.0	168	4480	101	1	50	7.5	330	2,300	790			31
19	0910	16	7.5	< 25	3820	24	2	54	8.1	350	7,000	790			< 15
22	0810	12	7.6	95	4880	134	12	143	8.0	370	(160,000)	(4,600)			< 15
23	-	-	-	165	3790	128	4	40	7.5	300	700	330			< 15
24	-	-	-	150	4190	104	2	47	7.6	310	3,300	330			15
AVG.		17	7.8	< 136	4540	98	< 4	63	7.7	322	4,860	730			< 19
MAX.		21	8.0	211	5820	134	12	143	8.1	370	160,000	4,600			31
MIN.		12	7.5	< 25	3790	24	< 1	40	7.5	270	700	330			< 15

Date	Fe mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P µg/l	Sol. P µg/l	COD mg/l
8-17	0.2	< 0.5	< 0.02	0.32	< 0.02	34.0	< 0.04	0.24	0.6	0.6	70	-	63
18	0.3			0.30				0.14	3.9	0.8	68	-	83
19	0.5			0.06				0.14	0.7	0.9	46	< 5	< 40
22	0.1			0.15				0.03	0.7	0.7	95	5	< 40
23	0.4			0.35				0.14	3.3	-	460	5	< 40
24	< 0.1	< 0.5	< 0.02	0.37	< 0.02	24.0	< 0.04	0.08	3.5	0.8	45	-	40
AVG.	< 0.3	< 0.5	< 0.02	0.26	< 0.02	29.0	< 0.04	0.13	2.1	0.8	131	< 5	< 51
MAX.	0.5			0.37				0.24	3.9	0.9	460	5	83
MIN.	< 0.1			0.06				0.03	0.6	0.6	45	< 5	< 40

COLORADO RIVER BASIN STUDIES

TABLE 43

Station P-29 - Price River. At Wellington Coal Cleaning Co. pump intake.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day	ORGANIC CARBON mg/l
8-17	1115	23	6.8	54	3680	138	10	95	8.1	250	1,500	50	3.2	5.3	-
18	1040	21	5.8	48	3530	124	8	53	8.2	260	1,700	700	2.7	4.5	21
19	0930	18	6.6	62	3440	154	9	52	8.2	300	13,000	4,900	2.0	3.3	17
22	0715	17	6.6	120	3250	224	6	46	8.2	260	(22,000)	(22,000)	1.7	2.7	15
23	-	-	-	100	3280	267	14	51	8.2	310	3,300	1,300	1.6	3.1	< 15
24	-	-	-	68	3390	209	16	83	8.2	300	3,300	1,300	1.2	3.2	< 15
AVG.		20	6.5	75	3430	186	12	63	8.2	280	5,670	1,360	2.1	3.7	< 17
MAX.		23	6.8	120	3680	267	16	95	8.2	310	22,000	22,000	3.2	5.3	21
MIN.		17	5.8	48	3250	124	6	46	8.1	250	1,500	50	1.2	2.7	< 15

DATE	Fe mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P µg/l	Sol. P µg/l	COD mg/l
8-17	0.6	0.5	< 0.02	0.20	0.02	<<0.02	< 0.04	0.15	0.3	0.9	252	-	91
18	0.6			0.08				0.16	0.3	0.8	247	-	56
19	0.5			0.09				0.14	0.4	0.6	305	5	44
22	0.8			0.11				0.08	0.1	0.9	310	< 5	40
23	0.5			0.11				0.12	0.3	1.0	570	15	< 40
24	0.6	0.5	< 0.02	0.12	< 0.02	0.22	< 0.04	0.10	0.4	1.1	330	-	< 40
AVG.	0.7	0.5	< 0.02	0.12	< 0.02	< 0.12	< 0.04	0.12	0.3	0.9	335	< 8	< 52
MAX.	0.8			0.20				0.16	0.4	1.1	570	15	91
MIN.	0.5			0.08				0.08	0.1	0.6	247	< 5	< 40

COLORADO RIVER BASIN STUDIES
TABLE 44

Station IW-30 - Icelander Wash. At Highway 90 bridge.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	1145	24	-									4900	80		
18	1105	22	-									490	20		
19												-	-		
22												-	-		
23												-	-		
24												-	-		
AVG.												1550	40		
MAX.												4900	80		
MIN.												490	20		

COLORADO RIVER BASIN STUDIES
TABLE 45

Station G-32 - Green River. At Highway 6-50 bridge - east of town of Green River.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	1250	27	6.6	315	939	406	35	37	8.5	16	1300	< 20		
18	1210	25	6.7	250	934	338	25	37	8.5	18	330	20		
19	1100	24	6.5	245	908	276	22	37	8.6	17	1100	20		
22	1250	23	5.4	208	907	211	9	37	8.7	17	110	20		
23	-	-	-	290	940	246	24	35	8.6	17	790	40		
24	-	-	-	172	908	248	26	35	8.6	17	700	< 20		
AVG.		22	6.3	247	920	288	24	36	8.6	17	550	< 20		
MAX.		27	6.7	315	940	406	35	37	8.7	18	1300	40		
MIN.		23	5.4	172	907	211	9	35	8.5	16	110	< 20		

DATE	Fe mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P µg/l	Sol. P µg/l
8-17	4.1	6.6	< 0.02	0.20	0.02	< 0.02	< 0.04					
18	3.2			0.16								
19	2.5			0.15				0.06	1.7	1.2	255	5
22	1.8			0.12								
23	2.2			0.10				0.05	0.5	1.0	107	5
24	2.2	3.7	< 0.02	0.12	< 0.02	0.04	< 0.04					
Avg.	2.7	5.2	< 0.02	0.14	< 0.02	< 0.03	< 0.04	0.06	1.1	1.1	181	5
Max.	4.1			0.20								
Min.	1.8			0.10								

COLORADO RIVER BASIN STUDIES
TABLE 46

Station P-31 - Price River. At Highway 6-50 bridge.

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	CHLORIDE mg/l	pH	ALK. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	B.O.D. mg/l 2-day	B.O.D. mg/l 5-day
8-17	1210	26	6.6	140	3800	141	13	63	8.3	170	4300	80	1.0	2.3
18	1130	24	6.6	124	4000	178	14	65	8.4	190	1300	80	1.4	2.-
19	1010	21	6.8	140	4480	173	12	71	8.4	200	2200	40	1.9	1.7
22	1200	22	7.5	3200	4090	2330	90	84	8.3	450	24000	220	1.-	4.2
23	-	-	-	315	4280	520	30	68	8.4	250	2300	50	1.5	2.-
24	-	-	-	970	4100	898	64	62	8.3	280	11000	130	1.2	2.3
AVG.		23	6.9	815	4120	707	37	69	8.4	257	4520	85	1.4	2.6
MAX.		26	7.5	3200	4480	2330	90	84	8.4	450	24000	220	1.9	4.2
MIN.		21	6.6	124	3800	141	12	62	8.3	170	1300	40	1.0	1.7

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P µg/l	Sol. P µg/l
8-17	0.06	< 0.1	0.8	160	-
18	0.12	< 0.1	0.8	198	-
19	0.06	0.6	0.9	200	< 5
22	0.16	1.2	3.9	-	< 5
23	0.06	0.5	1.5	210	5
24	0.04	1.4	2.0	870	-
AVG.	0.08	< 0.6	1.6	328	< 5
MAX.	0.16	1.4	3.9	870	5
MIN.	0.04	< 0.1	0.8	160	< 5

TABLE 47

COLORADO RIVER BASIN STUDIES

Station SJ-1 (San Juan River) Bridge downstream of Aneth, Utah

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg/l	Ni mg/l	Mn mg/l	Zn mg/l	Cu mg/l	CYANIDE mg/l	ARSENIC mg/l	PHENOLS µg/l
7-12	1305	89	6.9	< 85	1031	121	56	6	0.41	8.4			730	500	1.5	0.0	0.06	< 0.04	< 0.01			
13	1210	85	7.2	< 85	1010	119	40	1	0.36	8.5			1400	90	1.7	0.0	0.04	< 0.04	< 0.01			
14	0950	83	7.2	87	1060	117	38	4	0.55	8.3			790	< 80	1.3	0.0	0.04	< 0.04	0.01			
15	1010	85	6.6	98	1031	115	30	6	0.39	8.3			7900	50	1.4	0.0	0.06	< 0.04	< 0.01			
18	1000	84	7.6	87	1080	127	36	7	0.51	7.5			1300	50	< 0.5	0.0	0.04	< 0.04	< 0.01			
19	1015	85	7.0	< 85	1130	123	33	8	0.40	8.2			7900	70	0.0	0.0	0.03	< 0.04	< 0.01			
20	1100	85	7.4	87	1140	120	48	7	0.49	8.2			7900	50	< 5.0	0.0	0.05	< 0.04	0.02			
21	1000	83	7.3	56	1160	126	59	10	0.31	8.4			460	80	< 5.0	0.0	0.06	< 0.04	< 0.01			
22	1045	83	7.4	68	1170	124	85	8	0.98	8.3			4600	110	1.5	0.0	0.07	< 0.04	< 0.01			
23	1040	85	7.3	92	1080	130	177	4	0.80	8.4			7900	490	3.5	0.0	0.18	0.04	< 0.01			
AVG.		85	7.2	< 40	1089	122	55	5	0.51	8.3			1680	< 70	< 1.5	0.0	0.06	< 0.04	< 0.01			
MAX.		89	7.6	98	1160	130	177	10	0.98	8.5			7900	500	3.5	0.0	0.18	0.04	0.02			
MIN.		83	6.6	< 85	1010	115	30	1	0.31	7.5			460	< 80	0	0.0	0.03	< 0.04	< 0.01			

TABLE 48

COLORADO RIVER BASIN STUDIES

Station SJ-2 (San Juan River)

Colorado State Route 40 (Arizona State Route 364) Bridge near Four Corners

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	B.O.D. mg/l
7-17	1245	28	6.4	< 25	821	115	30	7	0.78	8.5	2100	40	1.0	0.0	0.03	< 0.04	0.02	-
13	1315	26	7.4	< 25	973	118	16	< 1	0.26	8.5	700	70	1.3	0.0	< 0.02	< 0.04	< 0.01	4.8
14	0900	23	7.2	-	-	-	-	-	0.22	-	1300	< 20	1.3	0.0	0.04	< 0.04	0.02	-
15	0920	24	6.4	< 25	917	115	19	2	0.34	8.4	230	< 20	1.4	0.0	0.04	< 0.04	0.01	-
18	0910	23	7.4	180	2330	236	206	11	0.43	7.9	1300	< 20	< 0.5	0.0	0.05	< 0.04	< 0.01	-
19	0930	23	7.0	27	1010	115	32	3	0.55	8.4	700	20	0.0	0.0	0.06	< 0.04	0.01	2.4
20	1130	25	7.4	< 25	1020	125	32	7	0.39	8.0	330	20	0.0	0.0	0.04	< 0.04	< 0.01	-
21	0915	23	7.0	< 25	1010	126	32	8	0.44	8.4	490	30	< 0.5	0.0	0.06	< 0.04	0.02	-
22	1120	25	7.4	53	995	128	55	6	0.46	8.4	490	30	4.20	0.0	0.08	< 0.04	< 0.01	-
23(1)	1120	25	5.5		1380	422			1.39	8.0	22,000	4,300		0.3	1.7	1.3	< 0.01	-
AVG.		25	7.1	< 48	1130	137	53	< 6	0.37	8.3	680	< 30	< 1.0	0.0	< 0.05	< 0.04	< 0.01	3.6
MAX.		28	7.4	180	2,330	422	206	11	1.39	8.6	22,000	4,300	4.20	0.3	1.7	1.3	0.02	4.8
MIN.		23	5.5	< 25	821	115	16	< 1	0.22	7.9	230	< 20	0.0	0.0	< 0.02	< 0.04	< 0.01	2.4

(1) Not used in average.

TABLE 49

COLORADO RIVER BASIN STUDIES

Station SJ-3 (San Juan River)

U.S.G.S. Cable Car - Estimated four(4)miles downstream of Shiprock, New Mexico

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	B.O.D. mg/l
7-12	1130	26	8.2	< 25	865	130	24	4	0.38	8.4	7500	700	1.5	0.0	0.06	< 0.04	0.01	
13	1430	28	9.6	< 25	846	122	18	5	0.23	8.8	1700	80	1.3	0.0	0.03	0.04	0.01	
14	0830	21	7.5	< 25	821	130	19	< 1	0.36	8.4	11,000	220	< 0.5	0.0	0.06	< 0.04	0.01	
15	0830	23	6.8	< 25	854	131	18	4	0.68	8.3	3,500	130	1.2	0.0	0.10	< 0.04	0.01	
18	0830	22	7.4	32	930	138	33	4	0.63	7.9	5,300	330	0.5	0.0	0.07	< 0.04	< 0.01	
19	0830	23	6.7	32	911	134	30	7	0.56	8.3	14,000	220	< 0.5	0.0	0.10	< 0.04	< 0.01	
20	1215	26	9.2	< 25	898	128	30	6	0.40	8.5	7,900	210	< 0.5	0.0	0.10	< 0.04	< 0.01	
21	0830	23	6.4	99	907	124	116	16	0.55	8.2	4,600	330	2.5	0.0	0.14	< 0.04	< 0.01	
#2(1)	1210	26	6.0	1,100	830	77	2,750	160	1.72	8.0	54,000	4,900	58.8	< 0.1	1.6	0.2	< 0.01	
#3(1)	1205	25	5.9		959	776			4.82	8.0	95,000	2,300	775	0.2	4.1	0.8	0.03	
AVG.		24	7.7	< 36	882	130	36	6	0.47	8.4	4,820	190	1.5	0.0	0.08	< 0.04	< 0.01	
MAX.		28	9.6	1,100	959	776	2,750	160	4.82	8.8	95,000	4,900	775	0.2	4.1	0.8	0.03	
MIN.		21	5.9	< 25	821	77	18	< 1	0.23	7.9	1,700	80	< 0.5	0.0	0.03	< 0.04	< 0.01	

(1) Not included in average.

TABLE 50

COLORADO RIVER BASIN STUDIES

Station SJ-4 (San Juan River) Colorado State Route 40 - Bridge near Four Corners

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM H.E.N./100ml Total	COLIFORM H.E.N./100ml Fecal	Al mg/l	[illegible] mg/l	Mn mg/l	Zn mg/l	Cu mg/l	CYANIDE mg/l	ARSENIC mg/l	PHENOLS µg/l
7-12	1100	-	-										4300	500								
13	1500	28	9.4										7900	700								
14	0800	22	7.0	< 25	871	130	19	6					4900	50								
15	0805	23	6.4										5700	70								
18	0800	23	7.0										1130	110								
19	0820	27	6.6										14,000	130								
20	1240	26	9.0										4,300	40								
21	0805	27	6.4										3,300	130								
22(1)	1205	25	5.8										93,000	7,900								
23(1)	1230	26	5.6										93,000	5,300								
AVG.		24	7.4										4,990	100								
MAX.		28	9.4										93,000	7,900								
MIN.		20	5.6										1,100	20								

(1) Not included in average.

TABLE 51

COLORADO RIVER BASIN STUDIES

Station SJ-5 (San Juan) Upstream of Shiprock & downstream of Farmington - Bridge off Highway 489

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg/l	NO3 mg/l	Mn mg/l	Zn mg/l	Cu mg/l	CYANIDE mg/l	ARSENIC mg/l	PHENOLS µg/l
7-12	1080	84	7.4	27	588	123	35	5	0.54	8.3			33,000	2,300	1.3	0.0	0.10	< 0.04	0.01			
13	1545	86	8.0	26	578	117	24	5	0.58	8.6			3,500	170	1.4	0.0	0.06	< 0.04	< 0.01			
14	0705	80	6.6	28	586	119	30	4	0.58	8.1			33,000	4,900	1.3	0.0	0.07	< 0.04	0.01			
15	0735	83	6.1	< 25	854	131	28	7	0.50	8.2			99,000	3,300	1.4	0.0	0.10	< 0.04	< 0.01			
18	0785	89	6.8	45	610	119	48	4	1.04	8.0			35,000	4,900	1.7	0.0	0.20	< 0.04	0.01			
19	0740	81	6.6	33	608	119	27	5	0.64	8.1			54,000	5,100	0.0	0.0	0.09	< 0.04	< 0.01			
20	1315	86	7.0	315	633	127	416	47	0.99	8.0			17,000	5,100	7.5	0.0	0.26	0.05	< 0.01			
21	0730	83	6.6	47	606	119	58	10	0.77	8.2			54,000	5,700	0.0	0.0	0.11	< 0.04	0.01			
22 (1)	1300	86	5.8	(14,000)	891	188	(24,800)	(1780)	1.58	7.8			160,000	3,500	550	0.3	1.6	1.3	< 0.01			
23 (1)	1250	55	6.0	(19,500)	756	270	(12,800)	(1030)	2.15	8.0			99,000	13,000	576	0.2	3.5	0.9	0.01			
AVG.		83	6.9	68	630	121	83	11	0.70	8.2			89,700	5,040	1.8	0.0	0.12	< 0.04	< 0.01			
MAX.		86	8.0	19,500	891	270	24,800	1,780	2.15	8.6			160,000	13,000	550	0.3	3.5	1.3	0.02			
MIN.		80	5.8	< 25	578	117	24	4	0.50	7.8			3,500	170	0.0	0.0	0.06	< 0.04	< 0.01			

(1) Not included in average.

TABLE 52

COLORADO RIVER BASIN STUDIES

SJ-6 (San Juan River) Below Bloomfield Outfall

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN 100ml Total	COLIFORM MPN 100ml Fecal	Al mg/l	Cr mg/l	Mn mg/l	Ni mg/l	Cu mg/l
7-12	0830	22	7.2	72	495	89	51	9	1.11	8.1			7900	170	2.6	0.0	0.13	< 0.04	0.01
13	0800	21	7.5	58	548	87	64	12	1.13	8.1			54,000	170	2.4	0.0	0.14	< 0.04	0.01
14	1535	29	9.0	152	599	88	266	23	1.16	8.8			2,200	130	2.3	0.0	0.07	< 0.04	0.0
15	0815	22	-	55	632	93	51	8	1.13	8.0			4,900	< 200	2.0	0.0	0.14	0.07	0.01
18	1430	28	-	72	629	87	58	< 1	1.06	8.3			3,300	40	2.1	0.0	0.12	< 0.04	0.04
19	0745	20	-	67	546	85	64	8	1.14	7.9			1,700	80	2.5	0.0	0.16	0.36	< 0.01
20	1410	30	-	82	535	84	71	8	1.02	8.8			1,700	80	< 2.0	0.0	0.12	0.08	< 0.01
21(1)	1340	25	4.0	82,000	2120	1,070	88,600	6,770	1.89	7.8			> 160,000	4,900	1770.0	1.1	4.1	4.4	< 0.01
22(1)	1405	25	5.6	45,000	1,120	335	44,500	2,900	2.38	8.0			> 160,000	17,000	750.0	0.5	1.3	4.4	0.04
23(1)	1420	28	6.1	15,000	650	194	9,620	900	85	8.1			43,000	1,100	240	0.0	2.8	0.7	< 0.01
AVG.		23	7.9	80	570	88	88	< 10	1.11	8.4			> 4,600	< 90	< 2.3	0.0	0.12	0.10	< 0.01
MAX.		30	9.0	82,000	2120	1,070	88,600	6,770	85	8.8			> 160,000	17,000	1770.0	1.1	4.1	4.4	0.04
MIN.		20	4.0	67	495	84	51	< 1	1.02	7.8			1,700	80	< 2.0	0.0	0.07	< 0.04	0.0

(1)Not included in average.

TABLE 53

COLORADO RIVER BASIN STUDIES

SJ-7 (San Juan River) - Highway 44 Bridge - South and Upstream of Bloomfield

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l
7-17	0910	22	6.4	62	380	77	70	16		8.0	-	-	4600	700					
13	0730	21	6.7	50	383	77	60	13	1.20	7.7	500	34			1.7	0.0	0.14	< 0.04	< 0.
14	1500	24	8.3	39	378	73	41	27		8.7	100	8							
15	0835	22	-	45	377	76	70	16		8.0	140	16							
18	1445	27	-	33	364	72	21	< 1		8.6	100	12							
19	0815	20	-	72	391	75	78	5		7.7	400	14							
20	1440	26	-	380	376	77	255	77		7.8	900	2							
21(1)	1410	23	5.0	40,000	1310	649	50,100	4,800		7.8	-	-	160,000	330					
22(1)	1340	25	6.0	36,000	921	272	35,900	2,400		8.0	-	-	160,000	7,000					
23(1)	1400	25	6.2	4300	422	108	3030	290		7.9	-	120	79,000	400					
AVG.		23	7.1	97	380	75	85	< 15		8.1	250	10	58,000	760					
MAX.		27	8.3	40,000	1310	649	50,100	4,800		8.7	900	120	160,000	7,000					
MIN.		20	5.0	33	364	72	21	< 1		7.7	100	2	4,600	330					

(1) Not included in average.

TABLE 54

COLORADO RIVER BASIN STUDIES

Station SJ-7A (San Juan River) 2 miles downstream of Blue Mesa Dam

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MP/100ml Total	COLIFORM MP/100ml Fecal	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	B.O.D. mg/l
7-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	0915	15	8.8	< 25	163	54	12	4		7.6	170	2						
14	1415	19	8.8	< 25	159	51	13	5		8.0	40	< 1						
15	-	-	-	< 25	159	56	21	7		7.6	300	7						
18	-	-	-	< 25	158	50	5	< 1		8.7	90	2						
19	-	-	-	< 25	168	51	10	2		7.8	1700	3						
20	-	-	-	< 25	161	51	14	4	0.43	8.2	100	< 2	0.0	0.0	0.03	0.18	0.01	
21	1255	17	8.1	26	161	51	48	7		7.6								
22	1300	18	9.2	< 25	160	52	10	3		8.4								
23	1325	18	8.6	< 25	157	50	17	5		8.4	500	< 2						
AVG.		18	8.6	< 25	160	51	17	< 4		8.0	600	< 2	0.0	0.0	0.03	0.18	0.01	
MAX.		19	9.2	26	168	54	48	7		8.7	4000	100						
MIN.		15	8.1	< 25	157	50	5	< 1		7.5	40	< 1						

TABLE 55

COLORADO RIVER BASIN STUDIES

Station SJ-8 (San Juan) San Juan River near Carrares, Colorado

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF 100ml Total	COLIFORM MF 100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l
7-12	1245	26	9.0	< 25	255	81	21	6	0.42	8.5	-	-	1200	60	1.3	0.0	0.13	< 0.04	0.01
13	1225	24	8.6	< 25	250	77	10	4	< 0.10	9.0	40	2			< 0.5	0.0	0.02	< 0.04	< 0.01
14	0930	22	8.0	< 25	248	78	2	< 1	0.16	8.6	20	< 1			0.8	0.0	< 0.02	< 0.04	0.02
15	-	-	-	< 25	257	80	6	3	0.18	7.2	< 10	1			< 0.5	0.0	0.02	< 0.04	< 0.01
18	-	-	-	< 25	277	85	22	2	(0.48	9.0	100	11			< 2.0	0.0	< 0.02	0.15	0.02
19	-	-	-	< 25	295	89	16	3	(0.38 -	9.0	20	2			< 2.0 -	0.0 -	< 0.02 -	0.12 -	0.02 -
20(1)	-	-	-	330	294	92	378	31	0.60	7.8	1900	160			10.0	0.0	0.10	0.11	< 0.01
21(1)	1015	23	5.7	480	283	89	574	56	5.74	8.2	-	-			15.0	0.0	0.15	0.24	< 0.01
22(1)	1025	23	6.4	1820	247	48	1230	100	16.5	7.9	280	< 2			31.0	0.0	1.4	0.40	0.04
23(1)	1110	25	6.8	750	253	74	710	26	1.49	8.3	1600	10			5.0	0.0	0.15	0.18	0.02
AVG.		24	8.5	< 25	260	82	13	< 3	< 0.29	8.6	< 30	< 4			< 1.5	0.0	< 0.04	< 0.10	< 0.02
MAX.		26	9.0	1820	295	92	1230	100	16.5	9.0	1900	160	11,000	1100	31.0	0.0	1.4	0.40	0.04
MIN.		22	5.7	< 25	247	48	2	< 1	< 0.1	7.2	< 10	< 1	1,700	60	< 0.5	0.0	< 0.02	< 0.04	< 0.01

(1) Not included in average.

TABLE 56

COLORADO RIVER BASIN STUDIES

Station SJ-9 (San Juan River) Downstream of Pagosa Springs

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM H.F./100ml Total	COLIFORM H.F./100ml Fecal	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	CYANIDE mg/l	ARSENIC mg/l	PHENOLS µg/l
7-12	1045	19	8.4								200	102	-	-								
13	1330	24	7.1								700	76										
14	1125	20	7.4	< 25	212	70	9	5	0.20	7.6	250	27			1.3	0.0	< 0.02	< 0.04	0.01			
15	1430	29	-								200	21										
18	1110	23	-								1200	68										
19	1430	24	-								300	20										
20	0850	18	-								1700	34										
21(1)	0915	17	5.8								-	-	2800	1100								
22(1)	0930	16	7.2								2500	< 10										
23(1)	0940	15	6.6								1400	< 2										
AVG.		20	7.6								460	< 40										
MAX.		29	8.4								2500	102										
MIN.		15	5.8								200	< 2										

(1) Not included in average.

TABLE 57

COLORADO RIVER BASIN STUDIES

Station SJ-10 (San Juan River) Highway 160 Bridge crossing San Juan River - Upstream of Pagosa Springs

DATE	TIME	TEMP °C	D.O. mg/l	TURB. Units	CONDUCT. µmho cm	ALK. mg/l	SUSPENDED SOLIDS Total mg l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	Al mg l	Mn mg/l	Mg mg/l	Zn mg/l	Cu mg/l	CYANIDE mg/l	ARSENIC mg l	PHENOLS µg l
7-17	1010	15	8.3								140	48										
13	1400	21	6.9				16	2			130	4										
14	1100	17	6.4	< 25	93	38					54	< 2										
15	1405	23	-						0.21	7.4	60	1			1.3	0.0	0.19	< 0.04	< 0.01			
18	1130	20	-								3800	110										
19	1400	22	-								80	< 2										
20	0915	16	-								440	26										
21(1)	0850	15	7.1								680	120										
22(1)	0900	14	7.4								390	< 2										
23(1)	0925	16	7.0								260	< 2										
AVG.		18	7.2								190	< 10										
MAX.		23	8.3								3800	120										
MIN.		14	6.4								54	1										

(1) Not included in average.

TABLE 58

COLORADO RIVER BASIN STUDIES

Station MC-11 (McElmo Creek) McElmo Creek at Aneth, Utah - Highway 262 Crossing

DATE	TIME	TEMP °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho cm	ALK. mg/l	SUSPENDED SOLIDS Total mg l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg l	[illegible] mg l	Mn mg/l	Zn mg/l	Cu mg/l	CYANIDE mg/l	ARSENIC mg l	PHENOLS µg/l
7-12	1330	31	6.2	156	2310	225	212	20		8.0			13,000	500								
13	1955	25	7.1	152	2300	222	182	19		8.2			4,900	300								
14	1040	25	7.4	160	2370	237	221	14		8.0			24,000	1,100								
15	0950	24	6.4	113	2291	217	149	13		8.0			9,400	500								
18	0945	24	7.6	-	-	-	-	-		-			22,000	700								
19	1000	24	7.0	230	2250	251	331	18		8.0			35,000	750								
20	1040	25	7.5	245	2410	237	266	15		8.0			13,000	790								
21 (1)	0945	22	6.7	7500	2760	676	5200	540	2.87	8.0			79,000	2300	84	0.0	0.38	0.2	< 0.01			
22	1030	23	7.0	400	2640	267	478	40		8.0			24,000	790								
23	1030	26	6.8	900	2680	318	916	74		8.0			24,000	13,000								
AVG.		25	7.0	251	2410	219	906	46		8.0			16,300	1,040								
MAX.		31	7.4	7500	2760	676	5200	540		8.2			98,000	13,000								
MIN.		22	6.2	113	2250	217	149	13		8.0			4,900	500								

(1) Not included in average.

TABLE 59

COLORADO RIVER BASIN STUDIES

Station MC-12 (McElmo Creek)

County Road Bridge - about 8 miles downstream of Cortez, Colorado

DATE	TIME	Temp. °C.	D.O. mg/l	COLIFORM MPN/100ml Total	Fecal
7-12	1710	-	-	170,000	49,000
13	1100	20	7.2	14,000	7,000
14	1140	22	7.4	79,000	2,300
15	1130	22	6.6	70,000	1,300
18	1110	21	7.2	28,000	2,600
19	1135	23	6.9	7,900	940
20	0915	19.5	6.6	130,000	49,000
21	1130	21	6.8	170,000	1,300
22	0930	18	6.8	94,000	7,900
23	0930	20	6.6	240,000	23,000
AVG.		21	6.9	65,500	5,570
MAX.		23	7.4	240,000	49,000
MIN.		18	6.6	7,900	940

TABLE 60

COLORADO RIVER BASIN STUDIES

Station MC-13 (McElmo Creek) Highway 666 Bridge Crossing - McElmo Creek Downstream of Cortez, Colorado

DATE	TIME	TEMP °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg/l	Mn mg/l	Zn mg/l	Cu mg/l	CYANIDE mg/l	ARSENIC mg/l	PHENOLS µg/l	B.O.D. mg/l
7-12	1645	31	5.8	< 25	3600	221	55	7	-	8.4			130,000	11,000	-	-	-	-	-			21
13	1035	23	7.8	27	3700	253	69	4	0.44	8.4			540,000	11,000	1.4	0.0	0.30	< 0.04	0.03			21
14	1300	25	6.4	< 25	3530	248	53	4	0.40	8.1			130,000	7,900	1.5	0.0	0.30	< 0.04	0.01			8.6
15	1145	26	7.8	27	3610	244	131	10	0.53	8.2			350,000	33,000	1.5	0.0	0.34	< 0.04	< 0.01			5.4
18	1130	24	7.6	50	3710	253	115	< 1	1.09	8.1			540,000	79,000	1.5	0.0	0.34	< 0.04	< 0.01			-
19	1305	27	6.8	160	3520	250	290	11	1.00	8.2			350,000	33,000	4.2	0.0	0.41	< 0.04	< 0.01			13
20	0845	19	6.3	590	3850	312	1630	82	0.75	8.1			540,000	23,000	20.0	0.0	0.14	< 0.04	< 0.01			6.8
21	1215	22	6.0	540	4130	309	1660	170	0.84	8.3			240,000	49,000	14.0	0.0	0.03	< 0.04	< 0.01			-
22 (1)	0905	18	6.1	4400	4450	645	323	20	3.13	8.1			1,600,000	170,000	61.0	0.0	0.53	0.51	0.04			-
23	0905	20	5.0	280	4270	303	-	-	1.43	8.0			1,600,000	220,000	7.5	0.0	0.37	< 0.04	< 0.01			-
AVG.		24	6.7	< 236	3770	366	500	< 36	0.74	8.2			368,500	30,100	6.4	0.0	0.28	< 0.04	< 0.01			12.6
MAX.		31	7.8	4400	4450	645	1660	170	3.13	8.4			1,600,000	220,000	61	0.0	0.41	0.51	0.04			21
MIN.		18	5.8	< 25	3520	221	53	< 1	0.40	8.0			130,000	7,900	1.4	0.0	0.03	< 0.04	< 0.01			5.4

(1) Not included in average.

TABLE 61

COLORADO RIVER BASIN STUDIES

Station MC-14 (McElmo Creek)

County Road Bridge crossing McElmo Creek
directly opposite Colorado Route 145 to Dolores

DATE	TIME	Temp. °C.	D.O. mg/l	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal
7-12	1630	-	-	11,000	900	-	-
13	1015	22.5	7.8			-	51
14	1220	29	7.8			140	4
15	1210	28	6.8			300	64
18	1150	29	8.2			120	30
19	1230	31	8.0			300	20
20	0825	19	7.8			460	< 2
21	1230	21	6.2			600	110
22	0845	18	6.6			2600	< 10
23	0850	21	7.4			1500	20
AVG.		24	7.4			450	< 20
MAX.		31	8.2			2600	110
MIN.		18	6.2			120	< 2

TABLE 62

COLORADO RIVER BASIN STUDIES

Station LP-1AA (La Plata River) - at La Plata

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg l	Cr mg l	Mn mg l	Zn mg/l	Cu mg/l	B.O.D. mg l 5-day
7-12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
13	1620	24	6.6	< 25	1400	230	20	?	0.14	8.3	-	59			1.0	0.0	0.06	< 0.04	0.01	
14	1420	26	6.8	< 25	1410	235	27	3	0.11	8.2	340	4			< 0.5	0.0	0.06	< 0.04	< 0.01	6.0
15	1330	26	6.2	< 25	1430	242	14	4	0.11	8.1	40	34			< 0.5	0.0	0.05	< 0.04	0.01	1.2
18	1310	26	7.2	< 25	1440	273	26	6	0.13	7.9	380	50			< 0.5	0.0	0.13	0.13	0.01	
19	1340	26	6.6	< 25	1430	259	32	2	0.25	8.1	200	63			< 2.0	0.0	0.07	< 0.04	< 0.01	
20	0725	15	7.0	< 25	1440	279	13	< 1	0.12	7.9	800	6			< 2.0	0.0	0.08	< 0.04	< 0.01	
21(1)	1330	22	5.8	5000	1110	218	2810	350	3.72	8.0	-	-	7900	3300	54.0	< 0.1	1.6	0.2	0.07	
22(1)	0740	17	6.7	600	1340	254	556	50	4.39	8.2	5200	60			21.8	0.0	0.43	< 0.04	< 0.01	
23(1)	0745	13	6.8	460	1320	255	378	50	0.80	8.0	4600	40			16.8	0.0	0.26	0.04	< 0.01	
AVG.		24	6.8	< 690	1370	250	431	< 52	1.09	8.1	800	28			11.0	< 0.01	0.30	< 0.07	< 0.011	3.6
MAX.		26	7.2	5000	1440	279	2810	350	4.39	8.3	5200	63			54.0	< 0.1	0.43	0.2	0.2	6.0
MIN.		13	5.8	< 25	1320	253	22	< 3	0.14	7.9	340	23			< 1.1	0.0	0.08	< 0.06	< 0.01	1.2

(1) Not included in average.

TABLE 63

COLORADO RIVER BASIN STUDIES

Station AR-15 (Animas River) Highway 17 bridge crossing Animas River upstream of Farmington outfall

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	SOLUTION MF/LITRE Total	SOLUTION MF/LITRE Fecal	SUSPENSION F/100ml Total	SUSPENSION F/100ml Fecal	Al mg/l	Mn mg/l	Mo mg/l	Zn mg/l	Cu mg/l	CYANIDE mg/l	ARSENIC mg/l	PHENOLS µg/l
7-12	0940	22	7.0	< 25	554	127	50	9	0.32	8.2			350,000	100	0.8	0.0	0.10	0.30	0.05		-	-
13	-	25	7.1	< 25	539	121	21	9	0.28	8.6			18,000	2,100	1.3	0.0	0.09	< 0.04	0.01		0	-
14	1300	26	7.8	< 25	478	123	12	< 1	0.27	8.2			1,100	< 200	< 0.5	0.0	0.08	< 0.04	0.02		0	-
15	1415	26	7.4	< 25	570	126	16	3	0.23	8.5			1,400	< 200	< 0.5	0.0	0.07	< 0.04	0.01	1.3	0	0
18	1340	26	8.5	< 25	596	132	21	< 1	0.38	8.2			7,000	80	0.5	0.0	0.10	< 0.04	< 0.01		0	0
19	1415	26	7.8	< 25	570	124	16	4	0.27	8.5			4,900	50	< 2.0	0.0	0.08	< 0.04	0.01	0	0	
20	1345	25	8.3	< 25	605	129	18	2	0.45	8.6			3,500	20	0.0	0.0	0.10	< 0.04	0.01	-	0	
21	1410	25	8.3	< 25	597	127	38	3	0.51	8.7			1,700	170	< 2.0	0.0	0.08	< 0.04	< 0.01	0	0	
22	1320	26	7.8	128	603	137	163	9	1.14	8.5			11,000	460	7.3	0.0	0.16	0.08	< 0.01	-	0	
23	1320	27	8.0	78	581	130	144	51	0.45	8.6			4,900	70	0.0	0.0	0.13	0.07	0.01	0	0	
AVG.		25	7.8	< 51	570	128	50	< 6	0.43	8.5			6,350	< 180	< 1.0	0.0	0.10	< 0.05	< 0.02	0.3	0	0
MAX.		27	8.5	128	603	137	163	51	1.14	8.7			350,000	2,100	7.3	0.0	0.16	0.08	0.05	1.3	0	0
MIN.		22	7.0	< 25	478	121	12	< 1	0.23	8.2			1,100	20	0.0	0.0	0.07	< 0.04	< 0.01	0	0	0

TABLE 6A

COLORADO RIVER BASIN STUDIES

Station AR-16 (Animas River) Station at Flora Vista - downstream of Aztec

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho cm	ALK. mg/l	SUSPENDED SOLIDS Total mg l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	DISSOLVED SOLIDS (CALCULATED) mg/l Total	Ferri Total	Ferr Total	mg/l	M. mg/l	Zn mg/l	Cu mg/l	CYANIDE mg/l	ARSENIC mg l	PHENOLS µg/l
7-17	0805	20	8.1	< 25	518	171	19	5		7.9			35,000	500						
13	0715	20	7.0	< 25	498	118	10	6		8.0			7,900	4,600						
14	0655	19	6.8	< 25	518	121	8	1		8.0			3,300	700						
15	1435	27	5.6	< 25	546	126	18	4		8.5			14,000	210						
18	1545	27	-	-	-	-	-	-		8.5			27,000	490						
19	0750	20	-	< 25	528	129	12	2		7.8			4,900	130						
20	1610	27	6.6	< 25	555	128	4	2		8.3			7,900	230						
21	0910	22	6.8	< 25	579	133	20	4		8.1			3,300	790						
22	0730	21	6.5	44	577	138	49	12		8.1			35,000	490						
23	1455	27	8.4	< 25	544	128	24	5		8.3			7,900	460						
AVG.		23	7.0	< 27	540	127	18	4		8.2			7,940	540						
MAX.		27	8.4	44	577	138	49	12		8.5			35,000	4,600						
MIN.		19	5.6	< 25	498	118	4	1		7.8			3,300	210						

TABLE 65

COLORADO RIVER BASIN STUDIES

Station AR-17 (Animas River)
Highway 550 bridge upstream of Aztec at Cedar Hill

Date	Time	Temp. °C.	DO mg/l	Coliform Total MPN/100 ml	Coliform Fecal MPN/100 ml
7/12	0840	-	-	11,000	7900
7/13	0755	18.5	7.3	7,900	1700
7/14	0730	18.0	6.8	2,300	200
7/15	1405	23.0	6.0	7,900	130
7/18	-	-	-	7,900	180
7/19	-	-	-	24,000	330
7/20	1535	23.5	6.8	7,000	110
7/21	0940	20.0	6.9	17,000	790
7/22	0800	19.0	6.5	7,000	2300
7/23	1420	23.0	7.5	17,000	2300
Avg.		21	6.8	9,180	630
Max.		23.5	7.5	24,000	2300
Min.		18.0	6.0	2,300	110

TABLE 66

COLORADO RIVER BASIN STUDIES

Station AR-18 (Animas River) U.S.G.S. Gage Station
Estimated two (2) miles upstream of Colorado - New Mexico state line
Use Footbridge near Cable Car

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho ºc	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	DISSOLVED SOLIDS (RESIDUE) mg/l (180ºC) Total	DISSOLVED SOLIDS (RESIDUE) mg/l (180ºC) Fecal	TOTAL SOLIDS (RESIDUE) mg/l (105ºC) Total	TOTAL SOLIDS (RESIDUE) mg/l (105ºC) Fecal	Al mg/l	[illegible]	Mn mg/l	Zn mg/l	Cu mg/l	CYANIDE mg/l	ARSENIC mg/l	PHENOLS µg/l
7-12	0905	19	8.1	< 25	378	94	12	3	0.35	8.4			35,000	9,400	< 0.5	3.0	0.08	0.12	< 0.01		-	-
13	0820	18	7.3	< 25	392	97	10	2	0.47	8.1			54,000	7,000	1.3	3.0	0.11	0.20	0.01		0	-
14	0750	17	7.1	< 25	413	104	12	1	0.39	8.3			13,000	1,700	0.8	3.0	0.14	0.20	0.02		2	-
15	1335	24	5.6	< 25	436	107	26	4	0.34	8.3			4,900	200	< 0.5	3.0	0.10	0.07	0.01	1.7	0	0
18	1450	23	5.5	< 25	411	95	13	< 1	0.70	8.2			7,000	330	< 0.5	3.0	0.11	0.13	0.01		0	0
19	-	-	-	< 25	424	101	13	4	0.48	7.8			24,000	1,300	3.0	3.0	0.12	0.10	< 0.01	0	0	0
20	1500	24	-	86	438	106	68	9	1.27	8.0			14,000	2,200	1.3	3.0	0.21	0.18	0.03	-	0	
21	1005	20	6.9	49	464	116	65	8	0.58	8.2			99,000	7,200	< 1.0	0.0	0.13	0.17	0.01	0.3	0	
22	0830	16	6.8	27	431	110	45	6	0.76	8.3			7,900	1,300	0.0	3.0	0.11	0.14	< 0.01	-	0	
23	1355	23	7.3	37	453	115	77	6	0.77	8.3			7,900	130	1.0	3.0	0.11	0.11	< 0.01	< 0.3	0	
AVG.		20	6.85	< 34	440	135	29	< 3	0.63	8.2			16,600	1,480	< 1.0	0.0	0.13	0.14	< 0.01	< 0.5	0	0
MAX.		24	8.1	86	464	116	68	9	1.27	8.4			99,000	9,400	3.3	0.0	0.21	0.20	0.03	1.7	0	0
MIN.		16	5.5	< 25	378	94	10	< 1	0.35	7.8			4,900	200	0.0	0.0	0.08	0.07	< 0.01	0.0	0	0

TABLE 07

COLORADO RIVER BASIN STUDIES

Station 48-19 (Animas River) County Road Bridge
about one(1)mile south and downstream of Durango, Colorado

DATE	TIME	TEMP °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM M F/100ml Total	COLIFORM M F/100ml Fecal	Al mg/l	[illegible]	Mn mg/l	Zn mg/l	Cu mg/l	CYANIDE mg/l	ARSENIC mg/l	PHENOLS µg/l
7-12	1000	18	8.4	< 25	378	88	13	2	0.46	8.0			7,900	5,200	< 0.5	0.0	0.17	0.19	< 0.01			
7-13	0855	18	7.5	< 25	397	91	7	4	0.33	7.8			35,000	4,900	1.3	0.0	0.10	0.18	0.04			
7-14	0830	17	7.5	< 25	425	99	9	1	0.26	7.7			110,000	7,900	< 0.5	0.0	0.12	0.16	0.03			
7-15	1300	21	6.1	< 25	456	107	7	3	0.24	7.9	14	4	170,000	33,000	0.8	0.0	0.11	0.17	0.02			
7-18	1410	21	-	< 25	415	94	11	< 1	0.75	8.0			170,000	70,000	< 0.5	0.0	0.14	0.14	0.02			
7-19	1543	19	-	93	411	96	114	18	1.72	7.8			33,000	13,000	2.3	0.0	0.71	0.70	0.21			
7-20	0800	17	6.3	68	427	99	50	12	1.16	7.7			350,000	4,900	2.3	0.0	0.16	0.17	0.07			
7-21	1045	18	7.0	35	461	106	31	8	0.69	7.9			33,000	2,700	< 2.0	0.0	0.12	0.13	0.02			
7-22	1525	19	5.8	< 25	443	104	6	2	0.42	8.1			79,000	49,000	0.0	0.0	0.15	0.20	< 0.01			
7-23	1310	19	7.7	< 25	453	107	10	3	0.58	7.9			4,000	4,900	0.0	0.0	0.11	0.14	< 0.01			
AVG.		19	7.0	< 36	430	99	25	< 5	0.66	7.9			65,400	9,800	< 1.0	0.0	0.14	0.17	< 0.02			
MAX.		21	8.4	93	461	107	114	18	1.72	8.1			350,000	70,000	2.3	0.0	0.71	0.70	0.04			
MIN		17	5.8	< 25	378	88	2	< 1	0.24	7.7			7,900	2,200	0.0	0.0	0.10	0.13	< 0.01			

TABLE 68

COLORADO RIVER BASIN STUDIES

Station AR-80 (Animas River) County Road Bridge crossing Animas River upstream of Durango, Colorado

DATE	TIME	TEMP °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg/l	Mn mg/l	Zn mg/l	Cu mg/l	CYANIDE mg/l	ARSENIC mg/l	PHENOLS µg/l
7-12	1040	17	8.1	< 25	382	87	7	3	0.39	7.6	-	-	900	500	< 0.5	0.0	0.12	0.20	< 0.01		-	-
13	0930	16	7.1	< 25	413	96	1	1	0.32	7.3	-	-	200	93	< 0.5	0.0	0.14	0.20	0.01		0	0
14	0850	16	6.5	< 25	422	96	< 1	1	0.32	7.6	340	5			< 0.5	0.0	0.13	0.20	0.01		0	-
15	1210	18	5.8	< 25	448	102	2	< 1	0.26	7.5	14	4			0.8	0.0	0.16	0.18	0.01	1.3	0	0
18	1315	19	-	< 25	404	99	11	2	0.58	7.1	240	30			0.5	0.0	0.14	0.17	0.01		0	0
19	1520	19	-	< 25	407	91	8	4	0.54	7.1	28	8			0.0	0.0	0.12	0.18	< 0.01	0	0	
20	0845	17	6.0	< 25	431	97	10	2	0.71	7.3	200	2			0.0	0.0	0.15	0.17	0.01	-	0	
21	1110	17	6.7	< 25	451	101	14	6	1.10	7.2	360	28			< 2.0	0.0	0.19	0.16	0.01	0.3	0	
22	1455	20	6.8	< 25	440	105	1	< 1	0.70	7.4	190	< 2			0.0	0.0	0.20	0.17	< 0.01	-	0	
23	1840	17	6.6	< 25	447	105	1	< 1	0.34	7.4	150	< 2			0.0	0.0	0.14	0.15	< 0.01	1.0	0	
AVG.		18	6.7	< 25	430	98	< 6	< 2	0.53	7.4	130	< 6			< 0.5	0.0	0.15	0.18	< 0.01	0.7	0	0
MAX.		20	8.1	< 25	451	105	14	6	1.10	7.6	360	30			0.8	0.0	0.20	0.20	0.01	1.3	0	0
MIN.		16	5.8	< 25	382	87	< 1	< 1	0.26	7.1	14	< 2			0.0	0.0	0.12	0.15	< 0.01	0	0	0

TABLE 69

COLORADO RIVER BASIN STUDIES

Station A8-21 (Animas River)
about one-half(1/2)mile below confluence of
(Mineral Creek and Animas River)

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	SOLIDS (MF) #/100ml Total	SOLIDS (MF) #/100ml Fecal	SOLIDS (M.P.N.) 100ml Total	SOLIDS (M.P.N.) 100ml Fecal	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	CYANIDE mg/l	ARSENIC mg/l	PHENOLS µg/l	ACIDITY mg/l
7-12	1215	14	8.5	< 25	299	7	11	1	0.73	6.6	-	-	500	< 200	1.3	0.0	2.9	0.7	0.11	-	-	-	-
13	1050	16	6.6	< 25	361	4	4	< 1	1.61	5.8	2	< 1			2.4	0.0	3.7	1.1	0.25	-	0	0	3.1
14	1010	15	6.1	< 25	380	5	5	< 1	0.53	6.4	< 1	< 1			1.4	0.0	3.7	0.9	0.23	1.0	0	0	6.6
15	1025	16	5.6	< 25	333	8	4	< 1	1.04	6.5	6	< 1			1.5	0.0	3.3	0.5	0.38		0	-	3.1
18	1145	15	-	< 25	399	7	2	2	0.23	5.2	11	< 1			< 0.5	0.0	0.35	0.25	0.07	0.5	0	0	1.4
19	1235	15	-	< 25	397	6	4	< 1	1.2	6.5	6	< 1			0.0	0.0	1.7	0.5	0.07		0		5.3
20	1305	15	6.9	< 25	398	8	7	2	1.28	6.7	10	< 2			< 2.0	0.0	1.1	0.5	0.07	1.7	0.005		1.7
21	1450	16	6.3	< 25	399	6	3	3	0.82	7.1	60	< 2			< 2.0	0.0	2.3	0.8	-		0		5.7
22	1850	13	5.8	< 25	320	8	1	< 1	0.74	6.9	30	< 2			1.0	0.0	3.1	1.0	0.18	1.7	0		7.9
23	0925	12	6.2	< 25	334	7	3	2	-	6.7	24	< 2			-	-	-	-	-		0		3.7
AVG.		15	6.4	< 25	330	6	4	< 2	0.99	6.5	< 15	< 2			< 1.3	0.0	2.1	0.69	0.13	1.4	0	0	3.8
MAX.		16	8.5	< 25	380	8	11	3	1.61	7.1	60	< 2			2.4	0.0	3.7	1.1	0.25	2.7	0.005	0	7.9
MIN.		12	5.6	< 25	299	4	2	< 1	0.23	5.8	< 1	< 1			0.0	0.0	1.7	0.5	0.07	0.3	0	0	1.4

TABLE 7G

COLORADO RIVER BASIN STUDIES

Station AR-2P (Animas River) above Silverton - Highway 110 Bridge

DATE	TIME	TEMP °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho cm	ALK. mg/l	SUSPENDED SOLIDS Total mg l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	Al mg/l	Mn mg/l	Zn mg/l	Cu mg/l	CYANIDE mg/l	ARSENIC mg l	PHENOLS µg/l
7-17	1455	13	7.7	< 25	154	26	10	1	< 0.10	7.1	-	-	80	20	0.80	0.0	0.15	0.4	0.01		
13	1200	12	7.0	< 25	171	23	-	< 1	0.32	6.9	120	7			< 0.5	0.0	0.09	0.7	0.03		
14	1130	15	6.5	< 25	164	26	< 1	< 1	0.14	7.1	2	< 1			< 3.	0.0	0.05	0.5	0.01		
15	0925	11	6.2	< 25	172	26	< 1	< 1	< 0.10	7.6	< 2	< 1			1.5	0.0	0.01	0.5	0.01		
18	1015	14	-	< 25	157	28	5	2	-	6.7	< 2	< 1			-	-	-	-	-		
19	1125	15	-	< 25	173	24	4	< 1	0.45	6.9	2	< 1			< 2.0	0.0	0.	0.4	0.01		
20	1115	16	6.3	< 25	175	24	1	< 1	0.35	7.0	2	< 2			< 2.0	0.0	0.01	0.4	0.03		
21	1310	15	6.6	< 25	180	24	< 1	< 1	0.29	7.1	4	< 2			0.0	0.0	0.00	0.4	0.02		
22	1100	12	6.2	< 25	172	26	< 1	< 1	0.35	7.1	< 2	< 2			< 2.0	0.0	0.69	0.4	0.02		
23	1030	12	6.5	< 25	186	25	< 1	< 1	0.14	6.6	2	< 2			< 2.0	0.0	0.69	0.5	< 0.01		
AVG.		13	6.6	< 25	170	25	< 3	< 1	< 0.28	7.0	< 3	< 2			< 1.2	0.0	0.56	0.46	< 0.02		
MAX.		16	7.7	< 25	186	28	10	2	0.52	7.1	120	7			< 2.0	0.0	1.89	0.7	0.03		
MIN.		12	6.2	< 25	154	23	< 1	< 1	< 0.10	6.6	< 2	< 1			< 0.5	0.0	0.01	0.4	< 0.01		

TABLE 71

COLORADO RIVER BASIN STUDIES

Station At-23 (Animas River) Extension of Highway 110 Bridge near Eureka, Colorado

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	Al mg/l	[illegible]	Mn mg/l	Zn mg/l	Cu mg/l	CYANIDE µg/l	ARSENIC mg/l	PHENOLS µg/l
7-12	1420	12	7.9	< 25	121	15	1	2	0.16	7.7	-	-	< 20	< 20	0.8	0.0	0.06	0.58	0.03			
13	1220	12	7.4	< 25	124	15	2	-	0.13	6.9	< 2	< 1			1.3	0.0	0.37	0.6	0.01			
14	1155	15	6.5	< 25	126	15	2	2	0.22	7.0	< 1	< 1			1.3	0.0	0.09	0.5	0.10			
15	0905	10	6.5	< 25	128	16	< 1	< 1	< 0.10	7.4	< 1	< 1			1.4	0.0	0.04	0.7	0.05			
18	0955	12	-	< 25	123	15	3	< 1	0.17	6.3	< 1	< 1			0.5	0.0	0.02	0.9	0.03			
19	1100	15	-	< 25	1320	16	1	< 1	0.30	6.7	< 1	< 1			0.0	0.0	1.0	0.6	0.0			
20	1040	14	6.4	< 25	136	16	6	< 1	0.15	7.1	< 2	< 2			0.0	0.0	1.1	0.6	0.04			
21	1045	15	6.4	< 25	145	15	< 1	< 1	0.17	6.7	< 2	< 2			< 0.0	0.0	1.1	0.6	-			
22	1120	12	6.8	< 25	135	15	2	2	0.24	7.0	< 2	< 2			< 0.0	0.0	1.1	0.6	0.05			
23	1055	13	6.4	< 25	140	16	2	< 1	0.34	7.2	< 2	< 2			0.0	0.0	1.1	0.66	0.04			
AVG.		13	6.7	< 25	350	15	< 4	< 1	< 0.19	7.0	< 2	< 2			< 0.9	0.0	1.7	0.63	0.06			
MAX.		15	7.5	< 25	1320	16	15	2	0.34	7.8	< 2	< 2			< 0.0	0.0	1.1	0.9	0.10			
MIN.		10	6.2	< 25	121	15	< 1	< 1	< 0.10	6.3	< 1	< 1			0.0	0.0	0.09	0.5	0.03			

TABLE 72

COLORADO RIVER BASIN STUDIES

Station MI-24 (Mineral Creek) at Railroad Bridge downstream of Silverton Outfall and just upstream of confluence with Animas River

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l
7-12	1200	12	8.7	< 25	198	15	10	< 1		7.3	-	-	50	20					
13	1105	13	7.8	< 25	207	15	< 1	< 1		6.5	< 2	< 1							
14	1025	12	6.3	< 25	216	16	6	4		7.3	< 1	< 1							
15	1050	15	5.7	< 25	225	16	6	2		7.3	< 1	< 1							
18	1200	14	-	< 25	230	14	4	< 1		6.4	< 1	< 1							
19	1300	15	-	< 25	225	14	4	< 1		6.7	-	-							
20	1250	14	6.4	< 25	242	14	4	2		6.9	L < 2)	< 2)							
											C 2) < 2	< 2) < 2							
21	1510	14	6.7	< 25	234	13	4	2		6.8	R 2)	< 2)							
22	1230	12	6.2	< 25	239	13	10	4		6.9	L 2)	< 2)							
											C 4) < 3	< 2) < 3							
23	0910	10	7.0	< 25	233	14	8	1		7.3	R 410)	6)							
AVG.		13	6.8	< 25	220	14	< 5	< 2		6.9	< 4	< 2							
MAX.		15	8.7	< 25	242	16	10	4		7.3									
MIN.		10	5.7	< 25	198	13	< 1	< 1		6.4									

NOTE: L - Left
C - Center
R - Right

TABLE 73

COLORADO RIVER BASIN STUDIES

Station MI-25 (Mineral Creek) at Highway 550 Bridge in Silverton - above municipal outfall

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg/l	Cr mg l	Mn mg l	Zn mg l	Cu mg/l	CYANIDE µg/l	ARSENIC mg l	PHENOLS µg/l	B.O.D. mg/l
7-12	1235	12	8.1	< 25	200	15	12	< 1	1.36	7.4	-	-	130	20	1.3	0.0	0.19	0.20	0.03	-	-	-	
13	1115	13	7.2	< 25	209	15	< 1	< 1	1.00	7.7	< 2	< 1			1.3	0.0	0.15	0.20	0.02	-	0	-	
14	1040	12	6.7	< 25	214	15	4	3	1.50	6.7	< 1	< 1			1.4	0.0	0.18	0.20	0.04	0.3	0	0	
15	1015	14	6.1	< 25	206	16	8	3	1.55	6.4	< 1	< 1			1.3	0.0	0.18	0.19	0.04		0		
18	1125	14	-	< 25	225	14	< 1	< 1	1.77	6.5	< 1	< 1			1.0	0.0	0.21	0.26	0.04	0.3	0	0	
19	1155	15	-	< 25	225	13	8	< 1	1.54	6.7	< 1	< 1			< 2.0	0.0	0.20	0.24	0.05		0		
20	1225	15	6.5	< 25	237	14	8	2	1.82	6.9	2	< 2			< 2.0	0.0	0.23	0.25	0.04	1.0	0		
21	1430	14	6.8	< 25	231	13	4	3	1.85	6.7	2	< 2			< 2.0	0.0	0.20	0.24	0.06		0		
22	1145	13	6.2	< 25	235	13	7	2	2.15	6.9	14	< 2			< 2.0	0.0	0.21	0.20	0.04	1.3	0		
23	0940	11	6.8	< 25	233	14	2	< 1	1.66	6.7	< 2	< 2			0.0	0.0	0.20	0.26	0.05		0		
AVG.		13	6.8	< 25	220	14	< 6	< 2	1.69	6.9	< 2	< 2			< 1.4	0.0	0.20	0.22	0.04	0.7	0	0	
MAX.		15	8.1	< 25	235	16	12	3	2.15	7.7	14	< 2			< 2.0	0.0	0.23	0.26	0.06	1.3	0	0	
MIN.		11	6.1	< 25	200	13	< 1	< 1	1.00	6.4	< 1	< 1			0.0	0.0	0.15	0.19	0.02	0.3	0	0	

TABLE 74

COLORADO RIVER BASIN STUDIES

Station CC-26 (Cement Creek) at Highway 110 Bridge in Silverton

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF 100ml Total	COLIFORM MF 100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	CYANIDE µg/l	ARSENIC mg/l	PHENOLS µg/l	ACIDITY mg/l
7-12	1340	14	7.4	37	681	0	22	16	6.10	5.4	-	-	330	< 20	3.0	0.0	2.6	2.1	0.09	-	-	-	-
13	1135	14	7.0	37	693	0	12	8	6.10	5.2	< 2	< 1			3.0	0.0	2.7	1.9	0.10	-	0	-	31.8
14	1100	14	6.6	48	734	0	18	7	6.95	4.9	1	< 1			3.0	0.0	2.7	1.7	0.10	1.0	0	0	33.9
15	0950	13	6.1	50	768	0	13	2	6.52	4.9	13	< 1			2.5	0.0	2.7	1.8	0.09		0		36.0
18	1040	15	-	39	731	0	15	4	5.51	5.2	5	< 1			3.2	0.0	2.7	1.8	0.08	0.3	0	0	33.8
19	1145	15	-	46	741	0	21	11	6.80	4.8	2	< 1			2.1	0.0	2.7	2.0	0.10		0		33.6
20	1140	16	6.3	44	727	0	14	4	6.62	4.9	2	< 1			3.0	0.0	2.6	1.7	0.09	1.0	0		31.0
21	1400	14	6.8	53	751	0	17	5	6.50	5.0	6	< 2			2.5	0.0	2.8	1.9	0.09		0.003		35.2
22	1030	12	6.5	50	739	0	11	1	6.78	5.0	4	< 2			2.1	0.0	2.8	1.8	0.10	0.7	0		34.4
23	1010	14	6.6	37	776	0	9	2	6.14	4.8	24	< 2			3.5	0.0	2.8	1.8	0.09		0		36.5
AVG.		14	6.7	44	740	0	16	5	6.40	5.0	< 4	< 2			2.8	0.0	2.7	1.9	0.09	0.8	0	0	34.0
MAX.		16	7.4	53	776	0	31	16	6.95	5.4	24	< 2			3.5	0.0	2.8	2.1	0.10	1.0	0.003	0	36.5
MIN.		12	6.1	37	681	0	7	1	5.51	4.8	1	< 1			2.1	0.0	2.6	1.7	0.08	0.3	0	0	31.0

TABLE 75

COLORADO RIVER BASIN STUDIES

Station LP-27 (Los Pinos) above the reservoir

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MPN/100ml Total mg/l	COLIFORM MPN/100ml Fecal mg/l	B.O.D. mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l
7-12	14:10	25	7.9	28	218	94	53	8	0.83	7.8	22,000	2,700	-	1.7	0.0	0.09	< 0.04	< 0.01
13	10:40	21	7.7	31	230	100	50	7	1.12	8.3	26,000	8,400	3.2	2.0	0.0	0.13	< 0.04	0.02
14	08:30	18	7.2	40	232	102	60	6	0.97	8.2	7,000	490	1.4	1.6	0.0	0.12	< 0.04	0.02
15	11:00	22	-	32	232	101	44	7	0.91	7.5	11,000	230		1.0	0.0	0.10	< 0.04	< 0.01
18	9:00	20	-	39	236	104	45	9	1.52	8.2	13,000	130		2.9	0.0	0.11	0.14	0.02
19	10:00	22	-	93	242	101	113	3	-	8.3	22,000	460		-	-	-	-	-
20	12:20	24	-	63	232	100	99	16	0.70	8.3	-	-		< 2.0	0.0	0.12	0.06	0.01
21	12:00	23	6.4	61	231	100	49	6	1.31	7.9	11,000	330		1.3	0.0	0.10	0.08	< 0.01
22	12:05	24	7.2	83	233	100	100	14	1.81	8.3	3,500	490		3.3	0.0	0.15	0.05	< 0.01
23	12:35	23	7.0	71	224	98	70	< 1	0.58	8.4	7,900	220		2.5	0.0	0.12	0.08	< 0.01
AVG.		22	7.2	54	230	100	68	< 8	1.08	8.1	11,700	550	2.3	2.0	0.0	0.12	< 0.06	< 0.01
MAX.		25	7.9	93	242	104	113	16	1.81	8.4	26,000	8,400	3.2	3.3	0.0	0.15	0.14	0.02
MIN.		18	6.4	28	218	94	44	< 1	0.58	7.5	3,500	130	1.4	1.0	0.0	0.09	< 0.04	< 0.01

TABLE 76

COLORADO RIVER BASIN STUDIES

Station LP-29 (Los Pinos) the most upstream station in the Ignacio Area

Date	Time	Temp. °C.	D.O. mg/l	Coliform MF/100ml Total	Fecal
7-12	1500	24	7.6	1400	250
13	1115	20	7.9	2100	100
14	0800	17	7.4	1900	600
15	1140	21.5	-	900	90
18	0830	18	-	3200	170
19	1030	22	-	2000	60
20	1130	21	-	1600	< 2
21	1100	20.5	7.1	2400	30
22	1105	20	7.6	2100	< 2
23	1150	22	7.2	2300	< 2
AVG.		21	7.5	1900	< 40
MAX.		24	7.9	3200	600
MIN.		17	7.1	900	< 2

TABLE 77

COLORADO RIVER BASIN STUDIES

Station LP-31 (Los Pinos) Highway 160 Bridge upstream of Bayfield

Date	Time	Temp. °C.	D.O. mg/l	Coliform MF/100ml Total	Fecal
7-12	1525	19	8.7	150	8
13	1530	17	7.8	520	18
14	1245	17	7.8	170	3
15	1525	19.5	-	110	< 1
18	1300	19	-	160	4
19	1525	18	-	190	5
20	0750	13	-	420	< 2
21	0750	14	7.3	170	< 2
22	0800	13	8.0	240	< 2
23	0800	13	7.6	270	< 2
AVG.		16	7.9	210	< 3
MAX.		19.5	8.7	520	18
MIN.		13	7.3	110	< 1

TABLE 78

COLORADO RIVER BASIN STUDIES

Station PR-32 (Piedra River) County Road Bridge off Highway 151 just above stream's entrance to the reservoir above Arboles

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg/l	Cr mg l	Mn mg l	Zn mg l	Cu mg l
7-12	1205	23	8.4	25	309	92	41	4	1.03	7.7	2100	70	1.6	0.0	0.07	< 0.04	< 0.01
13	1200	22	8.0	< 25	320	97	20	< 1	0.31	8.7	1800	130	< 0.5	0.0	0.06	< 0.04	0.01
14	0910	19	7.8	< 25	331	100	30	9	0.51	8.2	170	50	1.3	0.0	0.08	< 0.04	0.01
15	-	-	-	< 25	322	97	10	2	0.22	7.5	390	50	0.0	0.0	0.05	0.11	< 0.01
18	-	-	-	< 25	337	98	8	< 1	0.29	8.3	4300	< 20	0.0	0.0	0.06	0.17	< 0.01
19	-	-	-	< 25	344	99	19	3	0.25 -	- 8.5	400	20	0.0 -	0.0 -	0.04 -	0.11 -	< 0.01 -
20	-	-	-	< 25	346	99	23	4	0.44	8.1	1400	70	< 2.0	0.0	0.04	0.05	< 0.01
21(1)	1030	22	5.9	85	296	87	94	17	1.18	8.0	4600	1300	2.5	0.0	0.14	< 0.04	< 0.01
22(1)	1040	21	7.0	230	320	103	278	36	3.58	8.1	17000	330	11.0	0.0	0.24	0.13	0.01
23(1)	1125	23	7.0	122	292	91	125	6	1.28	8.3	3300	790	13.5	0.0	0.14	< 0.04	< 0.01
AVG.		22	7.4	< 85	320	96	22	< 3	0.44	8.1	930	< 50	< 0.8	0.0	0.06	< 0.08	< 0.01
MAX.		23	8.4	230	346	103	278	36	3.58	8.5	17000	1300	13.5	0.0	0.24	0.17	0.02
MIN.		19	5.9	< 25	292	87	8	< 1	0.22	7.5	170	< 20	0.0	0.0	0.04	< 0.04	< 0.01

(1) Not included in average.

TABLE 79

COLORADO RIVER BASIN STUDIES

Station U-1 (Uncompahgre River) above confluence with Red Mountain Creek

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	ACIDITY Mineral mg/l	ACIDITY Total mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l	CYANIDE µg/l	ARSENIC mg/l	CHLORIDE mg/l
8-1	1040	19	6.6	< 25	199	30	13	2	0.4	7.4	100	6			0.5	< 0.02	0.16	0.16	< 0.02	< 0.04		0	1
2	900	19	6.9	< 25	190	30	15	< 1	0.3	7.0	160	25			-	-	0.04	-	-	-		0	< 1
3	1115	14	6.6	< 25	193	30	4	2	0.2	7.2	60	10			-	-	0.06	-	-			-	< 1
4	1010	18	6.6	< 25	197	30	5	2	0.2	7.2	170	8			-	-	0.08	-	-	-		0	< 1
5	1135	14	7.4	< 25	201	30	2	< 1	0.2	7.4	34	< 2			-	-	0.07	-	-	-	0	0	< 1
8	1935	11	7.0	< 25	211	30	2	< 1	0.1	6.8	46	19			-	-	0.05	-	-	-		0	< 1
9	1910	13	6.9	< 25	213	30	2	1	0.1	7.0	79	2			-	-	0.05	-	-	-		0	< 1
10	1200	16	7.3	< 25	219	30	5	3	0.1	6.9	54	2			-	-	0.07	-	-			0	< 1
11	1260	18	7.0	< 25	220	30	1	1	0.1	7.0	46	< 2			-	-	0.06	-	-	-		0	< 1
19	1155	11	6.9	< 25	220	30	4	< 1	0.1	7.1	34	2			< 0.5	0.02	0.06	0.15	< 0.02	< 0.04		0	< 1
AVG.		18	6.8	< 25	220	30	5.3	< 1.5	0.2	7.1	60	< 5			< 0.5	< 0.02	0.06	0.16	< 0.02	< 0.04	0	0	< 1
MAX.		14	7.4	< 25	220	30	15	3	0.4	7.4	170	25			0.5	0.02	0.16	0.16	< 0.02	< 0.04	0	0	< 1
MIN.		11	6.2	< 25	190	30	1	< 1	0.1	6.8	20	< 2			< 0.5	< 0.02	0.05	0.15	< 0.02	< 0.04	0	0	< 1

Date	NH_3-N mg/l	NO_3-N mg/l	Org.N mg/l	Total P mg/l	Sol. P mg/l
8-4	0.14	< 0.1	< 0.1	140	< 5
2	0.03	< 0.1	0.1	10	5
AVG.	0.08	< 0.1	< 0.1	35	< 5

TABLE IX

COLORADO RIVER BASIN STUDIES

Station RMC-2 (Red Mountain Creek) at Mouth of Red Mountain Creek

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	ACIDITY Mineral mg/l	ACIDITY Total mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l	CYANIDE µg/l	ARSENIC mg/l	CHLORIDE mg/l
8-1	1015	17	6.5	109	714	0	41	6	15.0	3.7	?	< ?	68.0	131.0	14.7	0.02	1.5	4.6	0.60	< 0.04	0	0.01	?
2	910	12	7.2	100	744	0	38	6	15.1	3.7	6	4	77.4	131.9	14.9	-	1.6	5.0	0.61	-	0	0.006	?
3	1055	15	6.6	88	712	0	42	7	16.1	3.5	?	< ?	75.8	138.1	14.0	-	1.6	3.0	0.58	-	-	-	< 1
4	955	12	6.6	113	934	0	56	8	7.2	3.6	18	< ?	71.6	135.0	12.8	-	1.7	3.3	0.65	-	-	0.014	< 1
5	1155	16	6.8	108	765	0	36	4	15.9	3.5	< ?	< ?	77.5	137.0	14.6	-	1.7	5.8	0.65	-	0	0.011	< 1
6	1215	11	6.8	154	807	0	47	11	19.6	3.5	4	< ?	96.1	147.0	16.8	-	1.7	4.7	0.68	-	0	0.009	< 1
9	1155	15	5.9	112	883	0	46	12	20.0	3.5	?	< ?	90.4	140.0	15.6	-	1.8	5.7	0.68	-	-	0.009	1
10	1145	14	7.0	140	839	0	48	9	20.0	3.7	?	< ?	94.5	151.0	16.8	-	1.8	5.7	0.72	-		0.010	< 1
11	1145	12	7.0	113	853	0	54	11	20.0	3.5	< ?	< ?	95.5	154.0	16.6	-	1.8	5.6	0.72	-		0.010	< 1
12	1210	12	6.7	122	861	0	78	7	20.0	3.5	20	?	97.0	153.0	17.?	< 0.02	2.0	3.3	0.84	< 0.04		0.014	< 1
AVG.		13	6.7	113	810	0	49	8	16.7	3.6	< 3	< ?	84.4	141.3	15.3	< 0.02	1.7	3.1	0.68	< 0.04	0	0.011	< 1
MAX.		16	7.2	140	934	0	78	12	20.0	3.7	20	4	97.0	154.0	16.8	0.02	2.0	4.6	0.84	< 0.04	0	0.014	?
MIN.		11	5.9	88	712	0	36	4	7.2	3.5	< 2	< ?	68.0	131.0	12.8	< 0.02	1.5	2.0	0.58	< 0.04	0	0.006	< 1

Date	NH_3-N mg/l	NO_3-N mg/l	Org.N mg/l	Total P mg/l	Sol. P mg/l
8-4	0.04	0.3	0.2	63	10
9	0.06	0.2	< 0.1	52	< 5
AVG.	0.05	0.2	< 0.2	58	< 8

TABLE 81

COLORADO RIVER BASIN STUDIES

Station U-3 (Uncompahgre River) above Ouray

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	ACIDITY Mineral mg/l	ACIDITY Total mg/l	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l	CYANIDE µg/l	ARSENIC mg/l	CHLORIDE mg/l
8-1	1115	16	6.3	95	459	< 10	57	< 1	5.9	5.0	30	< 2	-	25.9	6.8	< 0.02	0.76	0.76	0.23	< 0.04		0.004	2
2	940	16	7.0	85	472	< 10	63	9	6.0	5.4	10	< 2	-	29.7	5.2	-	0.80	0.82	0.24	-	2.7	0	3
3	1145	16	6.7	79	470	< 10	37	2	5.9	4.9	< 10	< 2	26.4	55.9	6.4	-	0.80	0.82	0.24	-		-	1
4	1035	14	6.6	71	592	< 10	42	10	5.9	5.8	50	< 2	-	22.3	5.2	-	0.82	0.82	0.25	-		0.004	4
5	1115	15	7.3	71	494	< 10	33	6	5.3	5.1	< 2	< 2	-	26.1	5.2	-	0.85	0.88	0.26	-	0	0.303	1
8	1305	15	6.9	76	645	< 10	29	7	5.1	6.1	20	4	-	-	6.2	-	0.54	0.74	0.26	-	0	0.002	5
9	1230	16	6.1	90	617	< 10	40	13	6.4	5.7	210	6	-	18.9	5.2	-	0.90	0.86	0.27	-		0.001	4
10	1225	16	7.2	77	632	< 10	31	4	2.1	6.2	120	10	-	-	5.0	-	0.76	0.67	0.24	-	0	0	7
11	1225	17	6.7	45	646	20	34	9	3.2	6.6	430	110	-	-	4.0	-	0.76	0.61	0.17	-	0	0	7
12	1140	13	6.9	100	632	< 10	59	9	5.5	5.2	14	< 2	-	32.5	7.8	< 0.02	0.94	0.96	0.30	< 0.04		0.001	5
AVG.		15	6.8	79	570	< 11	43	< 7	5.4	5.6	< 30	< 4	26.4	30.2	5.7	< 0.02	0.77	0.79	0.25	< 0.04	0.5	0.002	4
MAX.		17	7.3	100	646	20	63	13	6.4	6.6	430	110	26.4	55.9	7.8	< 0.02	0.94	0.96	0.30	< 0.04	2.7	0.004	7
MIN.		13	6.1	45	459	< 10	31	< 1	2.1	4.9	< 2	< 2	26.4	18.9	4.0	< 0.02	0.54	0.61	0.17	< 0.04	0	0	1

Date	NH_3-N mg/l	NO_3-N mg/l	Org.N mg/l	Total P µg/l	Sol. P µg/l
8-4	0.08	0.1	0.1	610	< 5
9	0.04	0.1	0.1	30	< 5
AVG.	0.06	0.1	0.1	320	< 5

TABLE 8g

COLORADO RIVER BASIN STUDIES

Station CC-4 (Canyon Creek) Mouth of Canyon Creek

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg/l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l	CYANIDE µg/l	ARSENIC mg/l	CHLORIDE mg/l
8-1	1140	16	6.5	< 25	226	40	28	2	0.6	7.1	100	6			1.4	< 0.01	0.18	0.15	< 0.01	< 0.04			2
2	1000	15	8.3	650	258	60	892	50	9.0	7.1	50	46			21.6	-	0.86	0.29	< 0.01	-			1
3	1300	16	6.7	440	243	60	656	26	5.4	7.7	100	20			13.8	-	0.68	0.20	< 0.01	-			2
4	1055	15	6.6	250	266	50	384	20	5.0	7.9	300	24			12.4	-	0.65	0.79	0.03	-			< 1
5	1100	15	7.8	32	251	50	29	1	1.1	7.2	110	< 2			2.6	-	0.27	0.19	< 0.01	-			< 1
8	1325	14	7.0	< 25	270	50	8	1	0.3	7.2	70	6			5.2	-	0.12	0.16	0.01	-			1
9	1250	16	6.3	< 25	279	50	5	3	0.4	7.6	20	2			< 0.5	-	0.18	0.11	< 0.01	-			2
10	1235	16	7.3	< 25	281	50	8	1	0.2	7.2	28	< 2			< 0.5	-	0.19	0.20	< 0.01	-			2
11	1240	15	7.2	< 25	294	50	12	< 1	0.2	7.2	100	< 2			0.5	-	0.19	0.18	0.01	-			2
12	1125	13	7.1	< 25	290	50	7	2	0.2	7.6	90	10			< 0.5	< 0.02	0.18	0.17	< 0.01	< 0.04			1
AVG.		15	7.1	< 152	270	51	203	< 11	2.2	7.4	80	< 6			< 5.9	< 0.02	0.35	0.20	< 0.01	< 0.04			< 2
MAX.		16	8.3	650	294	60	892	50	9.0	7.9	300	46			21.6	< 0.02	0.86	0.79	0.03	< 0.04			2
MIN.		13	6.3	< 25	226	40	5	< 1	0.2	7.1	20	< 2			< 0.5	< 0.02	0.12	0.16	< 0.01	< 0.04			1

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P mg/l	Sol. P mg/l
8-4	0.22	0.1	0.1	35	5
9	0.03	0.1	0.3	24	< 5
AVG.	0.12	0.1	0.4	30	< 5

TABLE 83

COLORADO RIVER BASIN STUDIES

Station UC-5 (Oak Creek) Mouth of Oak Creek

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho cm	ALK. mg/l	SUSPENDED SOLIDS Total mg l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	SOLIDS (dissolved) MF/l/Cm1 Total	SOLIDS (dissolved) MF/l/Cm1 Fecal	ACIDITY Mineral mg/l	ACIDITY Total mg/l	Al mg l	Cr mg/l	Ni mg/l	Zn mg/l	Cu mg/l	Ag mg/l	CYANIDE µg l	ARSENIC mg l	CHLORIDE mg/l
8-1	1130	16	6.3	< 25	129	60	17	2	0.8	7.5	710	2			0.9	< 0.02	< 0.02	0.03	< 0.02	< 0.04			1
2	1010	14	7.1	49	133	60	61	1	1.3	7.5	710	6			-	-	0.12	-	-	-			< 1
3	1215	17	6.5	< 25	130	60	28	3	0.5	8.1	170	< 2			-	-	0.04	-	-	-			< 1
4	1105	14	6.7	< 25	130	60	14	1	0.0	8.2	130	6			-	-	0.03	-	-	-			< 1
5	1045	14	7.4	< 25	130	60	10	2	1.1	7.9	50	< 2			-	-	0.04	-	-	-			< 1
8	1335	15	7.0	< 25	134	60	2	2	0.3	7.8	160	6			-	-	0.05	-	-	-			1
9	1305	17	6.2	< 25	138	60	4	2	0.1	8.1	100	10			-	-	0.02	-	-	-			< 1
10	1245	16	7.3	< 25	135	60	7	2	< 0.1	7.8	200	< 2			-		0.03	-	-	-			1
11	1250	13	7.1	< 25	141	60	11	2	0.1	7.8	140	< 2			-	-	0.02		-	-			2
12	1115	13	7.2	< 25	141	60	2	< 1	0.1	7.9	230	2			< 0.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04			< 1
AVG.		15	6.9	< 27	130	60	16	< 2	0.9	7.9	60	< 3			< 0.7	< 0.02	< 0.04	< 0.02	< 0.02	< 0.04			< 1
MAX.		17	7.4	49	141	60	61	3	3.0	8.2	230	10			0.9	< 0.02	0.12	0.03	< 0.02	< 0.04			2
MIN.		13	6.2	< 25	129	60	2	< 1	< 0.1	7.5	50	< 2			< 0.5	< 0.02	< 0.02	< 0.02	< 0.02	< 0.04			< 1

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P µg/l	Sol. P µg/l
8-4	0.02	< 0.1	< 0.1	330	< 5
9	0.04	< 0.1	0.2	15	10
AVG.	0.03	< 0.1	< 0.2	172	< 8

TABLE 8b

COLORADO RIVER BASIN STUDIES

Station U-6 (Uncompahgre River in Ouray) above outfall

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho cm	ALK. mg/l	SUSPENDED SOLIDS Total mg l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	Al mg l	Cr mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ag mg/l	CYANIDE µg/l	ARSENIC mg l	CHLORIDE mg/l
8-1	1200	15	6.4	48	332	20	48	10	3.1	6.8	710	7	3300	130	3.9	< 0.02	0.44	0.47	0.12	< 0.04	-	-	2
2	1030	14	7.1	320	356	40	540	24	8.4	7.7	400	200	790	110	18.0	-	1.1	0.53	0.15	-	-	-	2
3	1235	17	6.6	350	355	30	362	22	7.4	7.7	200	40	2200	170	13.8	-	0.83	0.81	0.13	-	-	-	< 1
4	1125	14	6.7	190	352	30	194	6	6.2	7.7	-	-	700	700	8.6	-	0.69	0.42	0.13	-	-	0.005	1
5	1025	13	7.6	92	362	20	93	6	3.2	6.9	-	-	7800	790	5.0	-	0.54	0.46	0.10	-	-	-	1
8	1350	14	7.1	32	388	20	26	7	4.0	6.6	-	-	330	130	4.8	-	0.55	0.53	0.16	-	0.7	0	2
9	1315	17	6.0	< 25	351	30	45	4	1.2	7.5	-	-	3300	3300	1.0	-	0.30	0.22	0.05	-	-		2
10	1300	16	7.3	52	409	20	36	9	4.3	6.7	-	-	490	110	4.0	-	0.54	0.57	0.16	-	0	0.001	3
11	1305	14	6.9	43	415	10	31	5	4.0	6.3	-	-	790	790	4.0		0.55	0.58	0.13	-	0	0	3
12	1100	14	7.3	73	415	< 10	49	9	7.1	6.3	-	-	1100	460	5.0	< 0.02	0.64	0.71	0.17	< 0.04		0.001	2
AVG.		15	6.9	< 126	375	< 23	143	10	4.9	6.9	-	-	1180	740	6.0	< 0.02	0.62	0.54	0.13	< 0.04	0.2	0.001	< 2
MAX.		17	7.6	350	415	40	540	24	8.4	7.5	-	-	3300	3300	18.0	< 0.02	1.1	0.71	0.17	< 0.04	0.7	0.005	3
MIN.		13	6.0	< 25	332	< 10	31	5	1.2	6.3	-	-	330	110	1.0	< 0.02	0.30	0.22	0.10	< 0.04	0.0	0	< 1

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P. µg/l	Sol. P. µg/l
8-4	0.09	0.1	< 0.1	255	5
9	0.07	0.1	0.4	35	5
AVG.	0.08	0.1	< 0.2	145	5

TABLE 85

COLORADO RIVER BASIN STUDY

Station U-7 - Uncompahgre River - 2 miles below Ouray

Date	Time	Temp. °C.	D.O. mg/l	pH	COLIFORM Total MF/100 ml	COLIFORM Fecal MF/100 ml	COLIFORM Total MPN/100 ml	COLIFORM Fecal MPN/100 ml
8-1-66	1225	16	6.3	6.9	2600	570	3300	2300
2	1130	15.5	7.0	7.1	51000	12000	24000	13000
3	1010	15	6.6	7.3	90000	45000	> 160000	> 160000
4	1145	15.5	6.5	7.5			49000	17000
5	1000	14.5	7.3	7.3			33000	17000
8	1135	12.5	7.1	6.9			130000	130000
9	1115	13.5	6.5	7.1			79000	33000
10	1105	15	7.1	7.2			49000	17000
11	1100	14.5	7.0	7.2			33000	17000
12	1045	14.5	7.2	7.1			240000	49000
AVG.		15	6.9	7.2			> 49100	> 24700
MAX.		16	7.3	7.5			240000	160000
MIN.		12.5	6.3	6.9			3300	2300

TABLE 86

COLORADO RIVER BASIN STUDY

Station U-8 - Uncompahgre River - Above Ridgeway

Date	Time	Temp. °C.	D.O. mg/l	pH	COLIFORM MF/100 ml Total	COLIFORM MF/100 ml Fecal	COLIFORM MPN/100 ml Total	COLIFORM MPN/100 ml Fecal
8-1-66	1245	17.5	6.1	7.2	430	30	1,100	330
2	1150	16	6.9	7.4	12,000	3,900	35,000	11,000
3	945	14	6.6	7.6	4,200	520	3,300	790
4	1205	16.5	6.4	7.7			17,000	3,300
5	945	13.5	7.2	7.6			11,000	1,200
8	1115	12.5	6.9	7.5			3,300	790
9	1100	13.5	6.2	7.6			11,000	790
10	1045	14.5	7.1	7.5			3,300	790
11	1040	14.5	7.0	7.6			3,300	490
12	1030	13.5	7.1	7.5			7,900	700
AVG.		15	6.8	7.5			6,120	1,070
MAX.		17.5	7.2	7.7			35,000	11,000
MIN.		12.5	6.1	7.2			1,100	330

TABLE 87

COLORADO RIVER BASIN STUDIES

Station U-9 - Uncompahgre River - downstream or below Ridgeway

DATE	TIME	TEMP. °C	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	CHLORIDE mg/l	CYANIDE µg/l	ARSENIC mg/l	Al mg/l	CR mg/l	Mn mg/l	Zn mg/l	Cu mg/l	As mg/l
8-1-66	1330	20	6.5	< 25	597	110	31	2	1.0	7.7	300	34	230	50	5		0.002	1.4	< 0.02	0.19	0.10	< 0.02	< 0.04
2	1210	17	7.5	200	555	110	234	5	3.1	7.8	4400	660	3300	790	12		0.001	5.2	-	0.36	0.17	0.04	-
3	925	14	6.9	129	540	120	138	15	2.5	8.0	5700	740	24000	490	12		-	3.0	-	0.28	0.15	0.04	-
4	1225	18	6.5	95	642	110	97	< 1	2.0	8.1			3300	330	3		0.001	2.6	-	0.26	0.14	0.07	-
5	915	16	7.6	48	631	110	38	2	1.5	7.7			7900	1300	4		-	2.4	-	0.25	0.15	0.04	-
8	1055	13	7.4	< 25	644	120	9	3	0.8	7.4			1000	330	4		0.002	2.0	-	0.19	0.09	0.04	-
9	1035	14	6.6	< 25	657	110	12	4	1.0	7.8			4900	700	4		-	1.0	-	0.18	0.17	0.04	-
10	1025	16	7.7	< 25	647	110	30	3	0.8	7.6			7900	3300	5	0.2	0.001	0.5	-	0.17	0.15	0.04	-
11	1020	14	7.5	< 25	660	120	10	2	0.8	7.6			4900	490	5	0.1	0.002	< 0.5	-	0.10	0.10	0.04	-
12	1015	14	7.2	< 25	675	120	3	1	0.9	7.7			4900	460	4		0.002	< 0.5	< 0.02	0.17	0.14	0.03	< 0.04
AVG.		15	7.1	< 62	640	11-	33	< 4	1.44	7.8			5670	570	6	0.15	0.002	< 2.1	< 0.02	0.22	0.14	< 0.04	< 0.04
MAX.		20	7.7	200	675	120	234	15	3.1	8.1			24000	3300	12	0.2	0.002	5.2	< 0.02	0.36	0.17	0.07	< 0.04
MIN.		13	6.5	< 25	555	110	3	< 1	0.8	7.4			230	50	3	0.1	0.001	< 0.5	< 0.02	0.16	0.09	< 0.02	< 0.04

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P mg/l	Sol. P mg/l
8-4	0.05	0.1	0.3	155	< 5
9	0.05	0.1	0.2	23	5
AVG.	0.04	0.1	0.2	89	< 5

TABLE 88

COLORADO RIVER BASIN STUDY

Station U-10 - Uncompahgre River - Above Montrose

Date	Time	Temp. °C.	D.O. mg/l	pH	COLIFORM MF/100 ml Total	COLIFORM MF/100 ml Fecal	COLIFORM MPN/100 ml Total	COLIFORM MPN/100 ml Fecal
8-1-66	1350	19	6.6	8.0	230	44	1,300	80
2	1245	19.5	7.2	8.0	5,400	360	7,000	1.300
3	845	16.5	6.9	8.1	4.400	240	35.000	330
4	1300	20.5	6.9	8.4			4,900	40
5	845	16.5	7.6	8.1			7,000	220
8	1020	16.5	7.5	-			3,300	230
9	1005	17	6.6	8.3			24.000	230
10	950	16.5	7.9	8.2			3,300	130
11	945	16	7.5	8.2			3.300	130
12	945	16.5	7.4	8.1			11,000	60
AVG.		18	7.2	8.2			6,330	160
MAX.		20.5	7.9	8.4			35,000	1,300
MIN.		16	6.6	8 0			1,300	40

TABLE 89

COLORADO RIVER BASIN STUDIES

Station U-11 - Uncompahgre River below Montrose

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	CHLORIDE mg/l	CYANIDE µg/l	ARSENIC mg/l
8-1-66	1425	22	6.5							8.1	1300	110	11,000	230			
2	1320	22	7.0							8.2	3500	1400	11,000	230			
3	830	18	6.7							8.1	8000	820	24,000	460			
4	1320	22	6.9							8.3			7,900	170			
5	820	17	7.4							8.1			1,400	330			
8	1000	14	7.6							8.1			3,300	230			
9	945	18	6.8							8.2			4,900	490			
10	930	16	7.9							8.1			7,900	1,100			
11	930	16	7.7							8.1			2,300	790			
12	930	17	7.3							8.1			3,300	170			
AVG.		18	7.2							8.1			5,610	340			
MAX.		22	7.9							8.3			24,000	1,100			
MIN.		14	6.5							8.1			1,400	170			

TABLE 90

COLORADO RIVER BASIN STUDIES

Station U-12 - Uncompahgre River - above Olathe

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. µmho/cm	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe (Total) mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	CHLORIDE mg/l	CYANIDE µg/l	ARSENIC mg/l
8-1-66	1405	21	7.2							8.2	4100	740	11,000	1,700			
2	1330	23	7.0							8.1	17000	1000	35,000	790			
3	1320	22	7.0							8.2	15000	1000	54,000	2,300			
4	1325	23	7.3							8.3			54,000	790			
5	1315	21	7.3							8.3			7,000	1,300			
8	1330	21	6.8							8.2			4,900	790			
9	1315	20	7.1							8.3			7,900	790			
10	1300	20	8.0							8.3			35,000	790			
11	1315	21	8.0							8.3			28,000	1,800			
12	1305	19	7.8							8.3			11,000	2,300			
AVG.		21	7.4							8.3			17,850	1,200			
MAX.		23	8.0							8.3			54,000	2,300			
MIN.		19	6.8							8.1			4,900	790			

TABLE 91

COLORADO RIVER BASIN STUDIES

Station U-13 - Uncompahgre River - below Olathe.

DATE	TIME	TEMP. °C.	D.O. mg 1	TURB. Units	CONDUCT. µmho/cm	ALK. mg/1	SUSPENDED SOLIDS Total mg/1	SUSPENDED SOLIDS Volatile mg/1	Fe (Total) mg/1	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	CHLORIDE mg 1	CYANIDE µg 1	ARSENIC mg 1
8-1-66	1420	27	9.7							8.2	11,000	50	700	200			
2	1345	26	9.3							8.4	3,000	200	2300	490			
3	1335	27	10.4							8.4	900	600	1700	790			
4	1340	28	10.9							8.5			3300	490			
5	1330	28	9.6							8.3			4900	1700			
8	1345	26	11.4							8.3			4900	1400			
9	1335	25	11.1							8.4			4900	490			
10	1320	26	12.8							8.3			3300	2300			
11	1335	27	11.7							8.3			4900	330			
12	1320	23	10.4							8.3			17000	2300			
AVG.		27	10.7							8.3			3580	770			
MAX.		28	12.8							8.5			17000	2300			
M		23	9.3							8.2			700	200			

TABLE 9P

COLORADO RIVER BASIN STUDIES

Station U-14 - Uncompahgre River - above Delta

DATE	TIME	TEMP. °C.	D.O. mg/l	TURB. Units	CONDUCT. μmhos	ALK. mg/l	SUSPENDED SOLIDS Total mg/l	SUSPENDED SOLIDS Volatile mg/l	Fe Total mg/l	pH	COLIFORM MF/100ml Total	COLIFORM MF/100ml Fecal	COLIFORM MPN/100ml Total	COLIFORM MPN/100ml Fecal	CHLORIDE mg/l	CYANIDE μg/l	ARSENIC mg/l	Al mg/l	CR mg/l	Mn mg/l	Zn mg/l	Cu mg/l	Ar mg/l
8-1-66	1445	23	6.0	74	1,40	210	113	5	0.6	8.2	-	-	-	-	13			2.0	< 0.02	0.12	0.03	< 0.02	< 0.04
2	1410	23	7.1	220	1000	230	206	12	1.5	8.2	17,000	700	35,000	790	12			4.0	-	0.19	0.02	< 0.02	-
3	1355	24	7.0	76	1500	220	109	7	0.8	8.2	13,000	240	92,000	790	12			1.9	-	0.12	0.03	< 0.02	-
4	1400	24	8.4	41	1940	220	74	3	0.5	8.2			24,000	460	12			1.0	-	0.07	< 0.02	< 0.02	-
5	1350	25	8.8	30	1920	210	60	3	0.4	8.1			11,000	490	12			2.0	-	0.11	< 0.02	< 0.02	-
6	1410	23	9.4	< 25	1970	200	34	4	0.2	8.2			7,000	490	14		0	1.0	-	0.08	0.04	< 0.02	-
9	1355	23	8.8	< 25	2080	220	30	4	0.1	8.1			3,300	330	14			< 0.5	-	0.07	< 0.02	< 0.02	-
10	1340	22	9.7	< 25	2040	210	25	4	0.2	8.1			17,000	330	10			< 0.5	-	0.10	< 0.02	< 0.02	-
11	1400	23	9.6	< 25	2000	200	48	4	0.2	8.2			3,300	490	16			< 0.5	-	0.08	< 0.02	< 0.02	-
12	1340	22	9.2	< 25	2040	220	29	< 1	0.3	8.2			11,000	1,300	14			0.5	< 0.02	0.07	< 0.02	< 0.02	< 0.04
AVG.		23	8.7	< 57	19	214	74	< 5	0.5	8.2			13,200	550	14			< 1.4	< 0.02	0.10	< 0.02	< 0.02	< 0.04
MAX.		25	9.7	220	2080	230	206	12	1.5	8.2			92,000	1,300	16			4.0	< 0.02	0.19	0.04	< 0.02	< 0.04
MIN.		22	7.1	< 25	1040	200	25	< 1	0.1	8.1			3,300	330	12			< 0.5	< 0.02	0.07	< 0.02	< 0.02	< 0.04

Date	NH_3-N mg/l	NO_3-N mg/l	Org. N mg/l	Total P mg/l	Sol. P mg/l
8-4	0.42	2.9	1.0	60	-
9	0.37	3.5	0.9	30	5
AVG.	0.40	3.2	1.0	45	5

TABLE 13

COLORADO RIVER BASIN STUDIES

Salmonella Study Results

STATION	DESCRIPTION	Mean Coliform Total	MPN/100ml Fecal	SALMONELLA
SJ-2	San Juan R. - Colo. State Rt. 40 (Arizona St. Rt. 364) Br. near Four Corners	840	< 37	S. carrau S.4,5,12: i:monophasic
SJ-5	San Juan R. - U stream of Shiprock and downstream of Farmington - Br. off Hwy. 469	37,200	3,850	S.4,5,12:i:monophasic
SJ-6	San Juan R. - Below Bloomfield Outfall	> 10,500	200	Swab Not Recovered
SJ-7A	San Juan R. - 2 miles downstream of Blue Mesa Dam	100 *	< 2.2 *	Swab Not Recovered
MC-11	McElmo Cr. - At Anethistah - Hwy. 262 Crossing	19,000	700	S. denver S. newport
MC-13	McElmo Cr. - Hwy. 666 Br. Crossing - Downstream of Cortez, Colo.	45,000	34,000	Swab Not Recovered
AR-18	Animas R. - U.S.G.S. Gage Sta. abt 2 miles upstream of Colo.-N. Mexico St. Line	15,800	1,230	S. blockley
AR-19	Animas R. - Co. Rd. Br. abt one mile south and downstream of Durango, Colo.	66,000	9,800	S. blockley S. saint-paul
AR-21	Animas R.- 1/2 mile below confluence of Mineral Cr. and Animas R.	< 12 *	< 2 *	None isolated
AR-23	Animas R. - Extension of Hwy. 110 Br. near Eureka, Colo.	< 2 *	< 2 *	None isolated
MI-25	Mineral Cr. - At Hwy. 150 Br. in Silverton - Above Municipal Out.all	< 2 *	< 2 *	None isolated
U-7	Uncompahgre R. - 2 miles below Ouray	< 50,000	> 24,500	None isolated
G-10	Gunnison R. - Hwy. 92 Br. abt 5 miles E. of Delta, Colo.	1,150	36	S. oranienburg S. blockley
G-12	Gunnison R. - Below Delta, Colo.	86,000	3,300	S. typhimurium S. oranienburg
C-9	Colorado R. - At 5th St. Br. in Grand Junction, Colo.	34,000	5,100	S. anatum S. siegburg S. typhimurium
C-10	Colorado R. - Above irrigation return 1.8 miles on West Ave. after right off Hwy. 340	590,000	245,000	S. newport S. infantis
C-12	Colorado R. - East side of American Tilsonite Plant			S. montevideo S. anatum S. sandiego
C-18	Colorado R. - Below Moab, Utah			S. typhimurium
P-19	Price R. - On Hwy. 50 Upstream of Castle Gate Br. 0.6 mile	1,950	< 59	S. sandiego
P-23	Price R. - 2.5 miles Below Helper on Hwy. 6-50 Br.	30,000	6,100	S. schwarzengrund
P-25	Price R. - Below Price Sewer Outfall			S. heidelberg S. schwarzengrund
NFG-9	North Fork - Below Hotchkiss at Abandoned Fish Hatchery	7,400	750	Swab Not Recovered

* MF/100 ml